=> b reg FILE 'REGISTRY' ENTERED AT 18:03:54 ON 28 JAN 2008 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2008 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 27 JAN 2008 HIGHEST RN 1000849-38-6 DICTIONARY FILE UPDATES: 27 JAN 2008 HIGHEST RN 1000849-38-6

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when conducting ${\tt SmartSELECT}$ searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> d que sta 19 L5 STR

Hy \(^\) Hy \(^\) G1

VAR G1=AK/CB
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS E6 C E1 N AT 1
ECOUNT IS E4 C E2 N AT 2

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 3

STEREO ATTRIBUTES: NONE

L7 3902 SEA FILE=REGISTRY ABB=ON PLU=ON NCNC3/ES AND NC6/ES L9 301 SEA FILE=REGISTRY SUB=L7 SSS FUL L5

100.0% PROCESSED 3902 ITERATIONS 301 ANSWERS SEARCH TIME: 00.00.01

=> d que sta 127

L7 3902 SEA FILE=REGISTRY ABB=ON PLU=ON NCNC3/ES AND NC6/ES L25 STR

Hy ~ Hy --- N

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS E6 C E1 N AT 1

ECOUNT IS E4 C E2 N AT 2

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 3

STEREO ATTRIBUTES: NONE

L27 2294 SEA FILE=REGISTRY SUB=L7 SSS FUL L25

100.0% PROCESSED 3902 ITERATIONS SEARCH TIME: 00.00.01

2294 ANSWERS

=> b hcap

FILE 'HCAPLUS' ENTERED AT 18:04:10 ON 28 JAN 2008

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FILE COVERS 1907 - 28 Jan 2008 VOL 148 ISS 5 FILE LAST UPDATED: 27 Jan 2008 (20080127/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d bib abs hitrn fhitstr 112 tot

- L12 ANGMER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on STN
 AN 2004;515487 BCAPLUS
 DI 141:71555
 TI Preparation of nitrogen-containing heterocyclic compounds as CXCR4 regulator.
 H Habshitta Hitcour Nokubo, Masaya; Shibayama, Shiro; Tada, Hideaki;
 An One Pharmaceutical Co., Ltd., Japan
 DO PLATE COLOR: PIXXD2
 DI Patent
 LA Japanese
 FAN: CCCORE: PIXXD2
 DATE
 DATENT NO. KIND DATE APPLICATION NO. DATE FAN.CHI 1

 PATENT NO. KIND DATE APPLICATION NO. DATE

 PI M02004052882 A1 20040624 2003M0-JP15718 20031209

 W: AE, AG, AL, AM, AT, AL, AE, AB, BB, GB, RB, MB, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FT, GB, GD, GE, GH, GM, HR, HU, ID, IL, IL, SL, DF, RE, RG, RK, KZ, LC, LK, LR, LS, LT, LD, LV, MA, MD, MG, MK, MB, MM, MK, MK, NT, NO, NT, TM, TR, TT, TZ, UA, QC, US, UD, VC, VN, VU, ZA, ZA, ZM, ZW

 PMN: BW, GH, GM, KE, LG, MM, ME, DD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, ES, FI, FR, GB, GR, HU, LE, LT, LU, MC, NL, PT, RO, SE, ST, SK, ATTR, BF, BJ, CF, CG, CT, CM, AG, CM, ML, MR, NE, ST, DT, GA AU200328894 A1 20040630 2003AL-0288948 20031209

 PRI TAT, BE, CH, DE, DN, CS, FF, GB, GT, IL, LU, NH, NE, ST, NT, DT G AU2007167459 A1 20070719 2000SUS-0538758 20050610

 PAT 2003UP-0157746 A 20031209

 PAT 2003UP-0157746 A 20031209

 PAT 2003UP-0157746 A 20031209

 PAT 2003UP-0157746 A 20031209

 SMARPAT 141:71555

 GI
 - A 3 4 T B Y II
- Compds. such as pyrimidine and quinaroline derivs. represented by the following general formulas (I) and (III), saits thereof. N-oxides thereof, solvates thereof or prodrugs of the same (wherein the ring A represents an optionally substituted introgen-contenting heterocycle; the ring A represents an optionally substituted introgen-contenting heterocycle; or represents an optionally substituted hydrocarby! group, an optionally substituted hydrocarby! group, an optionally protected amino group, an optionally protected hydroxyl group or an optionally substituted hydrocarby! group, an optionally protected amino group, an optionally protected amino group, and optionally protected amino group, and substituted hydrocarby! group and protected amino group, and substituted are represented as a substituted and sub

- L12 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on SIN (Continued)
 711000-18-9P 711001-26-2P 711001-73-9P
 RL: PBC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)

=> d bib abs hitstr 135 tot

- L35 ANGMER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on STN
 AN 2004;515487 BCAPLUS
 DI 141:71555
 TI Preparation of nitrogen-containing heterocyclic compounds as CXCR4 regulator.
 H Habshitta Hitcour Nokubo, Masaya; Shibayama, Shiro; Tada, Hideaki;
 An One Pharmaceutical Co., Ltd., Japan
 DO PLATE COLOR: PIXXD2
 DI Patent
 LA Japanese
 FAN: CCCORE: PIXXD2
 DATE
 DATENT NO. KIND DATE APPLICATION NO. DATE
- FAN.CHI 1

 PATENT NO. KIND DATE APPLICATION NO. DATE

 PI M02004052882 A1 20040624 2003M0-JP15718 20031209

 W: AE, AG, AL, AM, AT, AL, AE, AB, BB, GB, RB, MB, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FT, GB, GD, GE, GH, GM, HR, HU, ID, IL, IL, SL, DF, RE, RG, RK, KZ, LC, LK, LR, LS, LT, LD, LV, MA, MD, MG, MK, MB, MM, MK, MK, NT, NO, NT, TM, TR, TT, TZ, UA, QC, US, UD, VC, VN, VU, ZA, ZA, ZM, ZW

 PMN: BW, GH, GM, KE, LG, MM, ME, DD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, ES, FI, FR, GB, GR, HU, LE, LT, LU, MC, NL, PT, RO, SE, ST, SK, ATTR, BF, BJ, CF, CG, CT, CM, AG, CM, ML, MR, NE, ST, DT, GA AU200328894 A1 20040630 2003AL-0288948 20031209

 PRI TAT, BE, CH, DE, DN, CS, FF, GB, GT, IL, LU, NH, NE, ST, NT, DT G AU2007167459 A1 20070719 2000SUS-0538758 20050610

 PAT 2003UP-0157746 A 20031209

 PAT 2003UP-0157746 A 20031209

 PAT 2003UP-0157746 A 20031209

 PAT 2003UP-0157746 A 20031209

 SMARPAT 141:71555

 GI

Compds. such as pyrimidine and quinaroline derivs. represented by the following general formulas (I) and (III), salts thereof. N-oxides thereof, solvates thereof or prodrugs of the same (wherein the ring A represents an optionally substituted introgen-contenting heterocycle; the ring A represents an optionally substituted hydrocarby! group, an optionally substituted heterocycle; or represents an optionally substituted hydrocarby! group, an optionally protected amino group, an optionally protected hydroxyl group or an optionally protected mercapto group; and Trepresents the ring A or an optionally substituted hydrocarby! group, an optionally protected mercapto group; and Trepresents the ring A or an optionally substituted hydrocarby! inflamatory diseases, immuned inflamatory diseases, inflamatory diseases, immune diseases, various allergic diseases, infections diseases, cardiooscular diseases, metablic diseases, cardiooscular diseases, metablic diseases, cardiooscular diseases, metablic diseases, occup, An assay system using SDF-1 which is an endogenous liquad of CXCR4 receptor, instead of HIV, was used in an assay for screening compds. which inhibit the binding of HIV to CXCR4 or CXR4 receptors on CD4-pos. cells. All the compds, prepared showed ICSD of 10 µM for inhibiting the binding of 2-(1-bentylyprolidin-y-lyamino)-4-(perhydrocarpin-1-y1)pyrimidine was described. 110986-02-0P 111006-61-3P (perhydrocarpin-1-y1)pyrimidine was described. 110986-02-0P 111006-61-3P (perhydrocarpin-1-y1)pyrimidine was described. (Therapeutic use); BIOL (Biological study); PREP (Preparation); TRU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

L35 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)
(Uses)
(preps. of nitrogen-contg. heterocyclic compds. as CXCR4 antagonists
for preps. and/treatment of diseases)
RN 710586-02-0 HCAPLUS
CN 2-Pyrimidinamine, N-(13R)-1-cyclohexyl-3-piperidinyl)-4-(hexahydro-1H-asepin-1-yl)- (CA INDEX NAME)

Absolute stereochemistry.

711006-64-3 HCAPLUS
2-Pyrinidinamine, N-[(35)-1-cyclohexyl-3-piperidinyl]-4-(hexahydro-1H-acepin-1-yl)- (CA INDEX NAME)

Absolute stereochemistry.

=> d bib abs hitstr 119 tot

L19 ANSMER 1 OF 6 HCAPLUS COPYRIGHT 2008 AC5 on STN
AN 2002-610405 HCAPLUS
D1 137:165514

TI Preparation of inidatolyl pyrinidinamines as NOS inhibitors
TI Arnair, Damian O.; Baldwin, Dan J.; Davey, David D.; Devlin, Janes J.;
Dolle, Roland Ellwood, III.; Erickson, Shawn David, McMillan, Kirk;
Morrissey, Michael M.; Ohnaey, Michael M. J.; Pan, Gonghua; Paradkar,
Vivayadhar Madhav; Parkinson, John; Phillips, Gary B.; Ye, Bin; Zhao,
Euchum
Bettel Laboratories, Inc., USA; Pharmacopeia, Inc.
COORS: USXAM
COORS: USXAM
DI Patent
L8 English
FAN.CNT 3
PATENI NO. KIND DATE APPLICATION NO. DATE

N.CNT 3															
PATENT NO.		KIN		DATE			APPL						ATE		
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PI. S		DE,	DR,	ш.э,	EI,	zĸ,	GD,	ur,	IL,	LI,	ш.,	ш,	ric,	1411,	
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CR. C	u. cz.	DE.	DK.	DM.	DZ.	EE.	ES.	FI.	GB.	GD.	GE.	GH.	GM.	HR.	
ни. т	D. IL.	IN.	IS.	JP.	KE.	KG.	KP.	KR.	KZ.	LC.	LK.	LR.	LS.	LT.	
	V, MA,														
	E. SG.														
	A. ZW		,		,		,	,		,		,	,		
RW: GH, G		LS.	MM.	MZ.	SD.	51	57.	TZ.	ug.	ZW.	AT.	BE.	CH.	CY.	
	K. ES.														
	G, CI,												,		
BR2000014144		A.		2002	0601		2000	op o	0141	4.4		2	0000	824	·
EP1206467		Al		2002	0522		2000	PD_0	0503	33		2	0000		
EP1206467		B1		2003	1217		2000	ue-v	,,,,				0000	024	~
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	I, LT,							LI,	ы.,	LU,	reas,	SE,	pro,	PI,	
5120818				2002			2000	ST-0	0200	4.0		2	0000	824	<
HU2002002450		A A2 A3 A		2002			2002						0000		
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EE-200200091		4					2002	EE-0	0000	9.7		2	0000	824	<
NZ517411		A		2003			2000						0000		
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ZA2002001485		A		2003			2002						0020		
IN2002MN00232		A		2005			2002						0020		
NO2002000925		A		2002			2002						0020		
NO323886		В1		2007											
MX2002PA02022		A		2002			2002	MX-P	A020	22		2	0020	226	<
BG106440		A		2002			2002						0020		
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LV12887		В		2003	0120		2002	LV-0	0000	5.0		2	0020	326	c
US2002165203		Al		2002			2002						0020		
US6841673		B2		2005			0000	0.5 0					0000		
US2002183323		A1		2002			2002	0.5-0	1216	59		2	0020	412	<
US6864263		B2		2005								_			
US2003004137		Al		2003			2002	115_0	1213	29		2	0020	412	
US6747031		B2		2004				0				-			
US2003027794		Al		2003			2002	US-0	1217	58		2	0020	412	<
US6846829		B2		2005				0							
US2003060452		Al		2003			2002	us-n	1212	12		2	0020	412	<
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US2003069210		Al		2003			2002	us-0	1220	72		2	0020	412	<
US6841674				2005				-				_		-	

L19 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

 $\label{eq:control_series} 212650-01-6 \quad \text{HCAPLUS} \\ 1\text{H-Atepine-2-carboxamide, N-(1,3-benzodioxol-5-ylmethyl)} \\ \text{heavy} \\ 1\text{heavy} \\ 1-2\text{heavy} \\ 1-$

212650-03-8 HCAPLUS $1H-Arepline-2-carboxamide, N-\{(2,3-dihydro-1,4-benzodioxin-6-yl) methyl | hexahydro-1-[2-(1H-imidarol-1-yl)-6-methyl-4-pyrimidinyl)- (CA INDEX NAME) <math display="block"> (CA - AME) = \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} +$

212650-05-0 HCAPLUS 1H-Acepine-2-carboxamide, N-[2-(1,3-benzodioxol-5-yl)ethyl]hexahydro-1-[2-(H-imidazol-1-yl)-6-methyl-4-pyrimidinyl)- (CA INDEX NAME)

1.19	ANSWER 1 OF 6	HCAPLUS	COPYRIGHT 20	08 ACS on STN	(Continued)
227	US2003073669	A1	20030417	2002US-0121682	20020412 <
	US2003078265	A1	20030424	2002US-0121808	20020412 <
	US6670473	B2	20031230		
	US2003083332	A1	20030501	2002US-0122047	20020412 <
	US6887865	B2	20050503		
	US2003092678	A1	20030515	2002US-0122006	20020412 <
	US6864368	B2	20050308		
	HK1051683	A1	20060127	2003HK-0103750	20030527 <
PRAI	1997US-0808975	B2	19970219	<	
	1998US-0025124	B2	19980217	<	
	1998EP-0906555	A3	19980219	<	
	1998WO-US03176	A	19980219	<	
	1999US-0383813	A	19990826	<	
	2000WO-US23173	W	20000824	<	
OS GI	MARPAT 137:1695	34			

$$\begin{array}{c|c} V-C-B-\left(CR14R20\right)_{n}-A \\ \hline z \\ V \\ V \\ W \end{array}$$

L19 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN

 $\label{eq:continuous} 212650-09-4 \quad \text{HCAPLUS} \\ 1\text{H-Arepine-2-carboxamide}, \quad \text{N-}\{2-(2,3-\text{dihydro-1},4-\text{benzodioxin-6-y})\} \\ \text{ethyl-heakhydro-1-}\{2-(1\text{H-imidazol-1-yl})-6-\text{methyl-4-pyrimidinyl}\} - \quad \text{(CA INDEX NAME)}$

212650-11-8 HCAPLUS
1H-Axepine-2-carboxamide, N-[2-(3,4-dimethoxyphenyl)ethyl]hexahydro-1-[2-(H-imidazol-1-yl)-6-methyl-4-pyrimidinyl) (CA INDEX NAME)

NH-СН2-СН2-

212650-12-9 HCAPLUS
1M-Arepine-2-carboxamide, N-[2-(3,4-dimethoxyphenyl)ethyl]-1-[6-ethyl-2-(H-indiazol-1-yl)-4-pyrimidinyl)hexahydro- (CA INDEX NAME)

L19 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

RN 212650-13-0 HCAPLUS
CN 1H-Arepine-2-carboxamide, N-[(3,4-dimethoxyphenyl)methyl)hexahydro-1-[2-(1H-imidazol-1-yl)-6-(1-methylethyl)-4-pyrimidinyl]- (CA INDEX NAME)

RN 212650-15-2 HCAPJUS
CN 1H-Azepine-2-acetamide, N-(1,3-benzodioxol-5-ylmethyl)hexahydro-1-(2-(1H-inidarol-1-yl)-6-methyl-4-pyrimidinyl)- (CA INDEX NAME)

RN 212650-16-3 RCAPLUS
CN 1H-Azepine-2-acetamide, N-(1,3-benzodioxol-5-ylmethyl)-1-[6-ethyl-2-(1H-inidazol-1-yl)-4-pypinidinyl)hexahydro- (CA INDEX NAME)

119 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued

RN 212650-21-0 HCAPLUS
CN 1H-Azepine-2-acetamide, N-[2-(3,4-dimethoxyphenyl)ethyl)hexahydro-1-[2-(1H-imidarol-1-yl)-6-methyl-4-pyrimidinyl)- (CA INDEX NAME)

RN 212650-22-1 HCAPLUS
CN 1H-Arepine-2-acetamide, N-[2-(3,4-dimethoxypheny))ethyl|hexahydro-1-[2-(1H-inidazol-1-yl)-6-(-1-methyl)ethyl)-4-pyrimidinyl|- (CA INDEX NAME)

RN 212650-24-3 HCAPLUS CN HR-Acepine-2-acetamide, hexahydro-1-[2-(1H-imidazol-1-yl)-6-methyl-4pyrimidinyl]-N-((4-methoxyphenyl)methyl)- (CA INDEX NAME) L19 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

RN 212650-18-5 HCAPLUS
CN 1H-Azepine-2-acetamide, N-[(2,3-dihydro-1,4-benrodioxin-6-yl)methyl|hexahydro-1-[2-(1H-inidazol-1-yl)-6-methyl-4-pyrimidinyl)- (CA INDEX NAME)

RN 212650-19-6 HCAPLUS
CN 1H-Arepine-2-acetamide, N-[(3,4-dimethoxyphenyl)methyl)hexahydro-1-[2-(1H-inidazol-1-yl)-6-methyl-4-pyrimidinyl)- (CA INDEX NAME)

RN 212650-20-9 HCAPLUS
CN 1H-Azepine-2-acetamide, N-[(3,4-dimethoxyphenyl)methyl)hexahydro-1-[2-(1H-imidazol-1-yl)-6-(1-methylethyl)-4-pyrimidinyl)- (CA INDEX NAME)

L19 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN (Continue

RN 212650-26-5 HCAPLUS
CN 1H-Arepine-2-acetamide, hexahydro-1-[2-(1H-inidazol-1-y1)-6-methyl-4pyrinidinyl)-N-[[4-(trifluoromethoxy)phenyl]methyl] (CA INDEX NAME)

RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

Angmen 2 Of 6 HCAPLUS COPYRIGHT 2008 ACS on STN
1998:806917 HCAPLUS
1291:231010
1291:231010
100 M-bheterocyclic derivatives as NOS inhibitors
Armaiz, Damian O; Baldwin, John J; Davey, David D; Devlin, James J;
Dolle, Roland Ellwood, III; Erickson, Shawn David; McMillan, Kirk;
Morrissey, Michael M.; Ohnseyer, Hichael H. J; Pan, Gonghua; Paradkar,
Vidyadhar Madhav; Parkinson, John; Phillips, Gary B.; Ye, Bin; Zhao,
Zuchun; et al.
Berlex Laboratories, Inc., USA; Pharmacopeia, Inc.; et al.
COOEN: PIXXO2
Patent

LA	English																	
FAN.	CNT 3																	
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DT	WO98						1998									9980		,
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	w.						GE.											
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							YU,											
	RW:																	
							LU,			PT,	SE,	BF,	ВJ,	CF,	CG,	CI,	CM.	
			GN,	ML,	MR,	ΝE,	SN,	TD,	IG									
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CT																		

L19 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2008 ACS on SIN

212650-05-0 RCAPLUS 1H-Arepine-2-carboxamide, N-[2-(1,3-benzodioxol-5-yl]ethyl]hexahydro-1-[2-(1H-inidazol-1-yl)-6-methyl-4-pyrimidinyl)- (CA INDEX NAME)

 $\label{eq:normalized} \begin{array}{lll} 212650-06-1 & \text{HCAPLUS} \\ 1\text{H-Atappine-2-carboxamide}, & \text{N-(2-(1,3-benzodioxol-5-yl)ethyl)-1-(6-ethyl-2-(H-inidazol-1-yl)-4-pyrimidinyl)hexahydro- (CA INDEX NAME)} \end{array}$

 $\label{eq:continuous} 212650-09-4 \quad \texttt{RCAPLUS} \\ 1\text{H-Azepine-2-carboxamide, N-[2-(2,3-dihydro-1,4-benzodioxin-6-yl)-ethyl]} \\ \text{Proposition of the proposition of$

L19 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN

N-Heterocyclic derivs. I [U = N, CBS (RS = H, halo, alkyl, optionally substituted aralkyl or aryl, etc.); V = NR4, S, O, CRR4 (R4 = H, alkyl) aryl, aralkyl, optionally in w = N, CH, S, O, CRR4 (R4 = H, alkyl) aryl, aralkyl, optionally substituted alkyl or coverage (R4 = H, alkyl) aryl, aralkyl, optionally substituted alkyl or coverage (R4 = H, alkyl, O = CC. (R1, R2 = H, optionally substituted alkyl or cycloalkyl, etc. or R112N = N-heterocyclyl); B = CR1/(CRR15)mgR3 (m = 1-4, R3 = H, alkyl, O = CO, O, C:NR1, etc.); N-heterocyclyl; C = (CRR12)q(CRR13); (q, r = 0 or 1; R2 = CO, O, C:NR1, etc.); N-heterocyclyl; C = (CRR12)q(CRR13); (q, r = 0 or 1; CR12) are all inhibitors of nitric oxide synthase. Thus. Nr([1.3-hencoloxol-5-y])methyl)-1-[3-(H-imidarol-1-yl)phenyl)piperidine-2-acetamide was prepared by reaction of 1-(3-aminophenyl)inidarole, 7-chloro-3-oxoheptanoic acid Et ester, and piperonylamine.

212650-01-20-2012650-01-20-30 212650-01-09
212650-11-20 212650-01-20-30 212650-01-09
212650-11-20 212650-01-20 212650-01-09
212650-01-20 212650-01-20 212650-01-09
212650-01-20 212650-01-20 212650-01-09
212650-01-20 212650-01-20 212650-01-09
212650-01-20 212650-01-20 212650-01-01 212650-01-0

 $\label{eq:local_local_local_local} 212650-01-6 \quad \text{HCAPLUS} \\ 1\text{H-Axepine-2-carboxamide}, \quad \text{N-}(1,3-\text{benzodioxol-5-ylmethyl}) \\ \text{hexapyine-1-(2-(1\text{H-inidazol-1-yl)})-6-(1-\text{methyl}) } \\ \text{this dazol-1-yl)} \\ \text{-6-(1\text{H-inidazol-1-yl)}} \\ \text{-6-(2\text{H-inidazol-1-yl)}} \\$

 $\label{eq:local_local_local} 212650-03-8 & \text{HCAPLUS} \\ 1\text{H-Arepine-2-carboxamide}, & \text{N-}\{(2,3-\text{dihydro-1},4-\text{benzodioxin-6-yl}) = \text{herbyl-4-pyrimidinyl} - \text{(CA INDEX NAME)} \\ & \text{INDEX NAME} \\ \end{aligned}$

L19 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

212650-11-8 HCAPLUS lH-Arepine-2-carboxamide, N-[2-(3,4-dimethoxyphenyl)ethyl|hexahydro-1-[2-(1H-inidaxol-1-yl)-6-methyl-4-pyrinidinyl)- (CA INDEX NAME)

 $\label{eq:local_local_local} $$1H-Arepine-2-carboxamide, N-(2-(3,4-dimethoxyphenyl)ethyl]-1-(6-ethyl-2-(1H-imidarol-1-yl)-4-pyrimidinyl)hexahydro- (CA INDEX NAME)$

212650-13-0 HCAPLUS H-Axepine-2-carboxamide, N-[(3,4-dimethoxyphenyl)methyl)hexahydro-1-[2-(Hh-imidazol-1-yl)-6-(1-methylethyl)-4-pyrimidinyl)- (CA INDEX NAME)

212650-15-2 HCAPLUS
1H-Arepine-2-acetamide, N-(1,3-benzodioxol-5-ylmethyl)hexahydro-1-[2-(1H-inidarol-1-yl)-6-methyl-4-pyrimidinyl)- (CA INDEX NAME)

L19 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

212650-16-3 HCAPLUS
1H-Atepine-2-acetamide, N-(1,3-benzodioxol-5-ylmethyl)-1-[6-ethyl-2-(1H-inidatol-1-yl)-4-pyrinidinyl)hexahydro- (CA INDEX NAME)

 $\label{eq:continuous} \begin{tabular}{ll} $212650-18-5$ & $HCAPLUS$ \\ $1H-Arepline-2-acetamide, $N-\{(2,3-dihydro-1,4-benzodioxin-6-y],nethyl]$ & $P(2,3-dihydro-1,4-benzodioxin-6-y],nethyl]$ & $P(3,3-dihydro-1,4-benzodioxin-6-y],nethyl]$ & $P(3,3-dihydro-1,4-benzodioxin-6-y),nethyl]$ & $P(3,3-dihydro-1,4-benzodioxin-6-y),nethyll$

212650-19-6 HCAPLUS 1H-Acpine-2-acetamide, N=[(3,4-dimethoxyphenyl)methyl]hexahydro-1-[2-(1H-imidazol-1-yl)-6-methyl-4-pyrimidinyl]- (CA INDEX NAME)

L19 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN

212650-24-3 HCAPLUS
1H-Arepine-2-acetamide, hexahydro-1-{2-(1H-imidazol-1-yl)-6-methyl-4-pyrimidinyl]-R-((4-methoxyphenyl)methyl)- (CA INDEX NAME)

212650-26-5 HCAPLUS
1H-Arepine-2-acetamide, hexahydro-1-[2-(1H-imidarol-1-yl)-6-methyl-4-pyrimidinyl)-8-[[4-(trifluoromethoxy)phenyl]methyl]- (CA INDEX NAME)

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT L19 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

212650-20-9 RCAPLUS
1H-Asspine-2-acetamide, N-[(3,4-dimethoxyphenyl)methyl]hexahydro-1-[2-(1H-imidarol-1-)h)-6-(1-methylethyl)-4-pyrimidinyl]- (CA INDEX NAME)

$$\label{eq:continuous} \begin{split} &212650-21-0 \quad \text{HCAPLUS} \\ &1\text{H-Arepine-2-acetamide}, \quad \text{N-}\{2-(3,4-\text{dimethoxyphenyl})\,\text{ethyl}\}\,\text{hexahydro-1-}\{2-(1\text{H-imidarol-1-yl})-6-\text{methyl-4-pyrimidinyl}\}-\\ &(\text{CA INDEX NAME}) \end{split}$$

212650-22-1 HCAPLUS | HCAPLUS | HCAPLUS | HCAPLUS | HCAPPLUS | HCA

L19 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2008 ACS ON SIN
AN 1976:478153 HCAPLUS
N 85:7815.12564a

OREF 85:12561a.12564
I 4-ball-o-4-arylpyrimidines and salts useful for relaxation of smooth muscle
IN De Angelis, Gerald G.; Hezs, Hans J. E.
P Ffirer Inc., USA
OLOS. 25 pp. Division of U.S. 3,895,112.
CODEN: USXXAM
LA RESULT LA RESU

19750411 <--19710920 <--19730619 <--

19760413 19750107 19750715 19710920 19730619 19751005 19701005 US--3950525 US--3859288 US--3895112 [1971US-0182220 1973US-0371483 1975US-0078216 1970US-0078216 PI

1975US-0567356 1971US-0182220 1973US-0371483 <--<--

Pyrimidinamines I (R = Dh. substituted phenyl, furyl, thienyl, naphthyl; R1 and R2 = N, alkyl, hydrosyslkyl, aminoslkyl; NRIR2 = heterocyclic; R3 = 400. Et. Pt. CMMe2. (100 comchodilator properties. Thus, I (R = Ph, R1 = R2 = Et. R3 = H) were obtained by Grignard reaction of PhBr with NCCR2CO2Et, condensation of R3NCPh:CRC02Et with RCONR2, chlorination of 4-hydroxy-6-phenylyprindidne, and amination of the 4-chloro compound 3682-282-99 (Sphthetic preparation); PREP (Preparation) 3682-282-9 HCAPUUS 14-R29HUS NAME)

• HCl

L19 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2008 ACS ON SIN
AN 1976:59528 HCAPLUS
DIVER 84:59528
L159528
L1595

FAN	English CNT 4					
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	US3908012	A	19750923	1973US-0371420	19730619	<
	US3707560	A	19721226	197005-0078216	19701005	<
	US3859288	A	19750107	1971US-0182220	19710920	<
	DK130971	В	19750512	1973DK-0001429	19730316	<
	US3890321	A	19750617	1973US-0371563	19730619	<
	CA978531	A2	19751125	1973CA-0176049	19730710	<
	CA978532	A2	19751125	1974CA-0191086	19740128	<
	FI55834	С	19791010	1977FI-0003287	19771102	<
	FI55834	В	19790629			
PRAI	1970US-0078216	A2	19701005	<		
	1971US-0182220	A3	19710920	<		
	1971FI-0002734	A	19710930	<		
	1971DK-0004801	A	19711001	<		
	1971CA-0124312	A3	19711004	<		
GI	For diagram(s),	see printe	d CA Issue			

1971CA-0124312 A3 19711004 <-For diagrams(s), see printed CA Issue.
About 100 pyrindines I (R = Ph, p-ClC6H4, 2-fury), 2-thienyl, 3-H2NC6H4,
etc., R1 = H, M6, Et, Pr, R2 = Et2N, MeNN, BuZN, 1-pyrrolidinyl,
piperioline, etc., were prepared by substitution of I (R = Cl) or treating
piperioline, etc., were prepared by substitution of I (R = Cl) or treating
piperioline, etc., were prepared by substitution of I (R = Cl) or treating
NCCHC2CGEX was treated with EMDMS and the H2NCPH CHC02CEX cyclined with
HCCNNIZ to give I (R = Ph, R1 = H, R2 = C8H), which was chlorinated with
PCOL3 and treated with Et2NN to give I (R = Ph, R = H, R2 = E2N) = 10-4 µ I (R = Ph, R1 = H, R2 = E2N) inhibited in vitro platelet
aggregations by 994. At 60 mg/kg I (R = 3-02NCH4, R1 = H, R2 = E2N)
gave 204 protection against histamine induced bronchoconstriction in
guines pigs.

NL: SPW (Synthetic preparation); PREP (Preparation)
(preparation and platelet aggregation inhibition of)
36822-82-9 HCAPLUS
(CA INDEX NAME)

L19 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN

II 42055-86-7 55615-45-1 55615-47-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with hydroxylamine)
RN 42055-86-7 HcAPJUS
CN 4-Pytindidneacetic acid, 6-(hexahydro-1H-arepin-1-yl)-2-(3,4,5-trimethoxyphenyl)-, ethyl ester (CA INDEX NAME)

\$5675-45-1 HCAPLUS
4-Pyrimidineacetic acid, 2-(3-fluorophenyl)-6-(hexahydro-lH-arepin-l-yl)-,
ethyl ester (CA INDEX NAME)

S5675-47-3 HCAPLUS
4-Pyrimidineacetic acid, 6-(hexahydro-1H-azepin-1-yl)-2-{3-(trifluoromethyl)phenyl}-, ethyl ester (CA INDEX NAME)

Lija ARSWER S OF 6 HCAPLUS COPYRIGHI 2008 ACS on SIN
AN 1975:171040 HCAPLUS
OREF 82:27345a, 27348a
T1 6-Pyrindinylacethydroxamic acids
IN Fauran, Claude; Eberle, Jeannine; Bourgery, Guy; Raynaud, Guy; Gouret, Claude
PA Delalande S. A., Fr.
OFT. Demande, 13 pp. Addn. to Fr. 2,158,081 (See Ger. 2,252,822, CA 7750051c).
TOTAL OF THE PRINCEL
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	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR2225154	A2	19741108	1973FR-0013667	19730416 <
	FR2225154	B2	19760702		
DRAT	107300 0013667		19220416	,	

FR.—225554 B2 19760702

AI 1972FR-0013667 A 197030146 <-For diagram(s), see printed CA Issue.
Analgesic and antinifiammatory (no data) pyrimidinylacethydroxamic acids I
(NRM1 = NMe2, NEC2, pyrrolidino, piperidino, hexamethylenimino,
morpholino; N2 = NNOR; N3 = 3-FC6H4, 3-ClC6H4, 3, 4-Sc(06H2, 3-ClC6H4, 3, 4-Sc(06H2, 3-ClC6H2, 3, 4-Sc(06H2, 3) - ClC6H4, 3, 4-Sc(06H2, 3

42055-79-8 HCAPLUS
4-Dyrinidineacetamide, 6-(hexahydro-1H-azepin-1-yl)-N-hydroxy-2-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)

ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN 1972:448506 HCAPLUS 77:48506 HCAPLUS 77:48506 77:748506 77:20514.80346 For inhibiting thrombocyte aggregation and as bronchodilateors De Angelis, Gerald G.; Hess, Hans J. E. Pfizer Inc. Ger. Offen., 87 pp. CODEN: GWXEX

FAN.	CNT 4				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE2149249	A	19720413	1971DE-2149249	19711002
	DE2149249	B2	19741107		
	DE2149249	C3	19750703		
	US3707560	A	19721226	1970U5-0078216	19701005
	FI55502	С	19790810	1971FI-0002734	19710930
	FI55502	В	19790430		
	DK131858	В	19750915	1971DK-0004801	19711001
	ZA7106615	A	19720628	1971ZA-0006615	19711004
	ES395676	A1	19741016	1971ES-0395676	19711004
	GB1373535	A	19741113	1971GB-0046158	19711004
	GB1373536	A	19741113	1973GB-0038316	19711004
	CA988519	A1	19760504	1971CA-0124312	19711004
	SE385885	С	19761104	1971SE-0012534	19711004
	SE385885	В	19760726		
	SE390304	В	19761213	1974SE-0010488	19711004
	BE773484	A1	19720405	1971BE-0003448	19711005
	NL7113670	A	19720407	1971NL-0013670	19711005
	NL168511	В	19811116		
	NL168511	С	19820416		
	FR2110227	A5	19720602	1971FR-0035815	19711005
	FR2110227	B1	19750207		
	CH542218	A	19731115	1973CH-0007729	19711005
	AT314540	В	19740410	1971AT-000B5B0	19711005
	AT315856	В	19740610	1973AT-0000148	19711005
	AT316563	В	19740725	1973AT-0000149	19711005
	AT317229	В	19740826	1973AT-0006054	19711005
	CH554346	A	19740930	1972CH-0015321	19711005
	CH554876	A	19741015	1971CH-0014529	19711005
	CH554875	A	19741015	1972CH-0015214	19711005
	JP56048511	В	19811116	1971JP-0078237	19711005
	AU7134259	A	19730412	1971AU-0034259	19711006
	DK130971	В	19750512	1973DK-0001429	19730316
	CA978531	A2	19751125	1973CA-0176049	19730710
	ES420211	A1	19760316	1973ES-0420211	19731102
	E5420209	A1	19760601	1973E5-0420209	19731102
	ES420210	A1	19760601	1973ES-0420210	19731102
	CA978532	A2	19751125	1974CA-0191086	19740128
	SE7410488	A	19740816	19745E-0010488	19740816
	FI55834	c	19791010	1977FI-0003287	19771102
	FI55834	В	19790629		
	JP56036468	A	19810409	1980JP-0110163	19800811
	JP57008107	В	19820215		

JP--56036468 A 19810409 1980JP-0110163 19800811 <-JP--510708107 B 19820215

PRAI 1970JS-0078216 A 19701030 <-1971E7-1002734 A 19710330 <-1971E7-1002734 A 19710330 <-1971E7-1002734 A 19710330 <-1971E7-1002734 A 19710340 <-1971E7-0172312 A 19711004 <-1971E7-0172312 A 19711004 <-1971E7-0172312 A 19711004 <-1885 4-Amino-6-arrylpytimidines (I), useful for inhibition of thrombocyte aggregation and as bronchodilators, were prepared by reaction of PMgX with RICH(CH)COSET to give ArrC(NH2): CRICOSET, which was condensed with NCONNE method included reaction of substituted o-chlorobernotitie with NASCH2COSEM to give a 2-amino-3-methoxydihydrobensolp)thiophene which was condensed with NCONNE to give a 4-hydroxyr-11benrothien (3), 2-dipyrimiding, treatment with DOC13, REASNM, then H over Raney NI, or by condensation of RCOCMRICOSET with (NR2) 2CS to give a 6-arryl-2-mercapto-4-hydroxyryrimiding About 75 I [R = Ph, substituted phenyl, 2-furyl, 2-thenyl, R1 = R.E., Pr. R2 = R. C1-4 alkyl, allyl, R3 = R. C1-4 alkyl, capture, allyl, BENN (CNC) 2(2, 3-picolyl) or R2R3 = (CN2)4-6, (CN2)20(CN2)2, or

L19 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)
(CR2) 2000e(CR2)21 were prepd.
17 36822-22-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 36822-82-9 HCAPLUS
CN 1H-ALEGHEN. HCAPLUS
(CA INDEX NAME)



=> d bib abs hitind hitstr 140 tot

ANSMER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on SIR
2003.796691 HCAPLUS
139:207788
Preparation of 5-cyanopyrimidine derivatives as anti-inflammatory agents
Machil, Daisuke; Yamaura, Yosuke; Arai, Hitoshi; Yanagawa, Koji; Ohshima,
Etsuo; Kawanabe, Ari; Iware, Miho; Kobayashi, Matsuya; Sato, Takashi;
Kyowa Hakko Kogyo Co., Ltd., Japan
PCT Int. Appl., 169 pp.
CODEN: PIXXD2
Patent

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	PATENT :	90.			KIN	D	DATE			APPL	ICAT	ION	NO.		D.	ATE	
						_									-		
PI	W020030	3285	5		A1		2003	1009		2003	WO-J	P040	09		2	0030	328
	w:	AE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	C
		co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KR,	KZ,	LC,	LK,	LR,	LS
		LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NI,	NO,	NZ,	OM,	PF
		PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	TJ,	TM,	TN,	TR,	TT,	T
		UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW						
	RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,	B
		KG,	KZ,	MD,	RU,	IJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	E.S
		FI,	FR,	GB,	GR,	HU,	IE,	IT,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	TF
		BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TO
	AU2003220968			Al		2003	1013		2003.	AU-0	2209	68		2	0030	328	
PRAI	PRAI 2002JP-0090640			A		2002	0328										
	2003WO-	JP04	009		W		2003	0328									

2003WO-JP04009 OS MARPAT 139:307788 GI

The title pyrimidine compds. I [wherein Rl and R3 = independently H. OH, halo. (un)substituted alkyl. alkoxy, alkylthio, aryl, aralkyl, or amino: acceptable salts thereof are prepared as anti-inflammatory agents. For example, the compound flux aprepared in a multi-step synthesis. If showe 97% inhibitory activity against thymus and activation-regulated chemokine (TARC) Ruffs cells at 1 µM. Formulations containing I as an active ingredient were also described.

ICARC) Ruffs cells at 1 µM. Formulations containing I as an active ingredient were also described.

ICS COTD-039/142; COTD-0401/04; COTD-045/12; COTD-043/04; COTD-039/12; COTD-0403/04; AGIK-031/506; AGIK-031/507; AGIK-031/501; AGIK-031/50

IT

ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)
611203-14-6P 611203-15-7P 611203-16-8P 611203-17-9P 611203-18-0P
611203-29-3P 611203-20-4P 611203-21-5P 611203-21-5P 611203-22-7P
611203-29-3P 611203-30-6P 611203-31-7P 611203-32-7P
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611203-34-9P 611203-60-0P 611203-51-1P 611203-52-2P 611203-35-3P
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611203-69-6P 611203-69-6P 611203-69-6P 611203-69-6P 611203-79-3P
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611204-13-4P 611204-13-6P
611204-13-

(drug candidate; prepn. of cyanopyrimidine derivs. as anti-inflammatory (agents) po fil200-4-10 fil200-42-IP fil200-43-2P fil200-43-2P

(und cannotes, preparation of Cyanopy: Internet delivs. as anti-inflam agents) 611200-40-9 RCAPLUS 5-Pyrindicaearbonitrile, 4-(hexahydro-1H-arepin-1-yl)-2-[4-[(1-methyl-4-piperidinyl)methyl)-1-piperazinyl)- (CA INDEX NAME)

611200-41-0 RCAPLUS
5-Pyrinidinecarbonitrile, 2-[4-[2-(diethylamino)ethyl]-1-piperazinyl]-4-(hexahydro-1H-arepin-1-yl)- (CA INDEX NAME)

611200-42-1 HCAPLUS 5-Pyrimidinecarbonitrile, 2-[4-[2-[bis(1-methylethyl]amino]ethyl]-1-piperazinyl]-4-(hexahydro-1H-azepin-1-yl)- (CA INDEX NAME)

L40	ANSWER 1 OF 1	HCAPLUS COPYR	IGHT 2008 ACS	on STN (Cont	inued)
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		11200-41-0P 611			
	611200-43-2P €	11200-44-3P 611	200-45-4P		
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	611202-21-2P	611202-22-3P	611202-23-4P	611202-24-5P	
				ynthetic preparat	ioni: THE
				PREP (Preparati	
		(se); prop (pror	ogical scudy),	huma (brebaraci	OH); USES
	(Uses)				
	(drug candi	date; prepn. of	cyanopyrimid:	ine derivs. as an	ti-inflammatory
	agents)				_
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	@11502-08-8B	011203-10-2P	011203-11-3P	011203-12-4P	011203-13-5P

L40 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on SIN

611200-43-2 HCAPLUS
5-Pyrinidinecarbonitrile, 2-[4-[3-(diethylamino|propyl]-1-piperarinyl]-4-(hexahydro-1H-azepin-1-yl)- (CA INDEX NAME)

611200-44-3 HCAPLUS 5-Pyrimidinecarbonitrile, 4-(hexahydro-1H-azepin-1-yl)-2-[4-[2-(1-piperidinyl)ethyl]-1-piperazinyl]- (CA INDEX NAME)

611200-45-4 HCAPLUS

-Pyrimidinecarbonitrile, 4-(hexahydro-1H-azepin-1-yl)-2-[4-[3-(1-piperidinyl)propyl)-1-piperazinyl)- (CA INDEX NAME)

611201-14-0 HCAPLUS 5-Pyrimidinecarbonitrile, 2-(4-(3,6-dihydro-1(2H)-pyridinyl)-1-piperidinyl)-4-(EA INDEX NAME)

611201-15-1 HCAPLUS 5-Pyrimidinecarbonitrile, 4-(hexahydro-1H-azepin-1-yl)-2-(3-methyl[1,4*-blylperidin-1*-yl) (CA INDEX NAME)

L40 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

RN 611201-16-2 HCAPLUS CN 5-Pyrinidinecarbonitrile, 4-(hexahydro-1H-azepin-1-yl)-2-[4-(hexahydro-1H-azepin-1-yl)-1-pipridinyl)- (CA INDEX NAME)

RN 611201-17-3 HCAPLUS CN 5-Pyrimidinecarbonitrile, 2-(4-(ethylmethylamino)-1-piperidinyl)-4-(hexanydro-lih-arpin-1-yl)- (CA INDEX NAME)

RN 611201-18-4 HCAPLUS
CN 5-Pyrintidinecarbonitrile, 4-(hexahydro-1H-arepin-1-y1)-2-[4-(methyl-2-propenylamino)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 611202-14-3 HCAPLUS
CN 5-Pyrinidinecarbonitrile, 2-[[3-[(cyclopropylmethyl)propylanino)propyl]ami
no|-4-(hexahydro-1H-azepin-1-yl)- (CA INDEX NAME)

RN 611202-85-8 HCAPLUS
CN Piperazine, 1-acetyl-4-[[1-[5-cyano-4-(hexahydro-1H-azepin-1-y1)-2pyrimidinyl1-3-piperidinyl]methyl]- (9CI) (CA INDEX NAME)

140 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

RN 611204-30-9 HCAPLUS
CN 5-Pyrimidinecarbonitrile, 4-(hexahydro-1H-arepin-1-yl)-2-|4-[3-(1-pyrrolidinyl)propyl)-1-piperarinyl|- (CA INDEX NAME)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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     FILE 'HCAPLUS' ENTERED AT 17:03:06 ON 28 JAN 2008
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                TRA L1 1- RN :
     FILE 'REGISTRY' ENTERED AT 17:03:07 ON 28 JAN 2008
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           1829 SEA L2
T.4
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L_5
                STR
L6
              0 L5
           3902 NCNC3/ES AND NC6/ES
1.8
             7 L5 SAM SUB=L7
            301 L5 FULL SUB=L7
T. 9
                SAV TEM J758C1/A L9
L10
             13 L9 AND L3
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L12
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             75 L11
T<sub>1</sub>1.3
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              6 L14 AND L18
L19
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L20
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                E E3+ALL
L21
          13030 E19+OLD
                E E22+ALL
          27324 E10+OLD,NT
T.22
L23
              2 L21-22 AND L13
               SEL HIT RN 2
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T<sub>1</sub>2.4
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L27
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L28
            926 L27 NOT L28
L29
L30
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L31
             20 L30 AND L27
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5 L32 AND (NC6 AND NCNC3 AND NC5 AND C6)/ES

L32

L33

16 L31 AND NR>=4

SEL RN 1-2

2 E17-18 T.3.4 FILE 'HCAPLUS' ENTERED AT 17:58:27 ON 28 JAN 2008 T.35 1 L34 L36 50 L29 L37 32 L36 AND (PD<=20031209 OR AD<=20031209 OR PRD<=20031209) L38 2 L37 AND L21-22 1 L23 NOT L38 T.39 L40 1 L24 AND L27

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

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http://www.cas.org/support/stngen/stndoc/properties.html

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NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM GGCAT IS UNS AT 2 DEFAULT ECLEVEL IS LIMITED

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GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS

STEREO ATTRIBUTES: NONE

3911 SEA FILE=REGISTRY ABB=ON PLU=ON NC6/ES AND NCNC3/ES L7 2301 SEA FILE=REGISTRY SUB=L7 SSS FUL L5 T. 9

100.0% PROCESSED 3911 ITERATIONS SEARCH TIME: 00.00.01

2301 ANSWERS

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FILE COVERS 1907 - 19 Feb 2008 VOL 148 ISS 8 FILE LAST UPDATED: 18 Feb 2008 (20080218/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d bib abs hitstr 122 1

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L22 ANGMER 1 OF 2 HCAPLUS COPYRIGHT 2008 ACS ON STN
AN 2006:38348 MCAPLUS
D1 144:28266 measuring cell migration activity
II Method for measuring cell migration activity
II Shibayamae Shiror Takeda, Kazuhiko; Matanabe, Noriki; Suqiyama, Tetsuya
D2 PCT Int. Appl., 27 pp.
D3 PCT Int. Appl., 27 pp.
D4 Patent
LA Japanese
FAN.CHI
PAZBAT NO. KIND DATE APPLICATION NO. DATE
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Absolute stereochemistry.

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d bib abs hitrn fhitstr 122 2

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1.22 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)  
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                                L22 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2008 ACS ON SIN
AN 2004:515487 HCAPLUS
N 141:71555
TI Preparation of nitrogen-containing heterocyclic compounds as CXCR4 regulator.
HI Kabashita Hiromus; Kokubo, Masaya; Shibayama, Shiro; Tada, Hideaki;
Habashita Hiromus; Kokubo, Masaya; Shibayama, Shiro; Tada, Hiromus; Tada, Hiromus; Habashita Hiromus; Habash
AB Compds. such as pyrimidine and quinaroline derivs. represented by the following general formulas (I) and (II), salts thereof. N-oxides thereof, solvates thereof or prodrugs of the same (wherein the ring A represents an optionally substituted nitrogen-containing heterocycles; the ring B represents an optionally substituted heterocycle; droup, an optionally protected amino group, an optionally protected hydroxyl group or an optionally protected amino group, an optionally protected hydroxyl group or an optionally protected mino group, an optionally protected mino group, an optionally protected hydroxyl group or an optionally substituted amino group, are prepared there are also as a second substituted and an analysis of the second seco
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)
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710993-31-1P 710993-31-4P 710993-31-5P
710993-31-1P 710993-31-4P 710993-31-6P
710993-30-1P 710993-32-5P 710993-34-7P
MR. PAC (Phermacological activity); SPN (Synthetic preparation); THU (Therapeutic use); B101 (Biological study); PREP (Preparation); USES (Uses)
(Vess)

                                                                                                                       ANSMER 2 OF 2 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued) 710989-59-69 710989-62-1P 710989-65-4P 710989-65-70 710989-67-70 710989-710989-710989-710989-710989-710989-80-3P 710989-80-3P 710989-80-3P 710989-80-3P 710989-80-3P 710989-80-3P 710989-96-1P 710989-99-1P 71098-99-1P 71098-99-1P 71098-99-1P 710989-99-1P 710989-99-1P 71098-99-1P 71098-99-1P
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L22 ANSMER 2 OF 2 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)
710995-71-49 710995-72-59 710995-73-69
710995-71-49 710995-72-59 710995-78-19
710995-80-39 710995-82-79 710995-82-79
710995-80-39 710995-82-79 710995-82-49
710995-90-79 710995-91-89 710995-89-49
710995-90-79 710995-91-89 710995-92-99
710995-96-79 710995-91-87 710995-98-59
710995-96-79 710995-97-49 710995-98-59
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710996-08-79 710996-97-10999-01-10-19
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710996-11-59 710996-12-69 710996-13-79
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710996-31-80 710996-31-80 710996-31-79
710996-31-80 710996-31-80 710996-31-79
710996-31-80 710996-31-80 710996-31-80 (Synthetic preparation); TRU (Therapeutic use); BIOL (Biological study); FREP (Preparation); USES (USES)
(USES)
(prepn. of nitrogen-contq, heterocyclic compds. as CXCR4 antagonist for prepn. and/treatment of diseases)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      710996-41-18 710996-62-22 710996-43-3P
KL: PAC (Phermacological activity; SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREF (Preparation); USES (Preparati
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BFOL (Biological study); PREP (Preparation); USES (Uses)
(Uses)

(Uses)

(The property of nitrogen-conts; heterocyclic compds. as CXCR4 antagonists (Preparation); PREP (Preparation); USES (Preparation); PREP (PREP (Preparation)); PREP (PREP (PR
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711005-81-59 711005-52-69 711005-53-0-09
711005-91-89 711005-58-99 711005-59-09
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                                                                                             ML: PAC (Pharmacological activity); SPM (Synthetic preparation); THU (Therapeutous); BIOL (Bological study); PRED (Preparation); USES (Preparation); CSP (Preparation); USES (Preparation); CSP (Preparation); USES (Preparation);
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(preparation of nitrogen-containing heterocyclic compds. as CXCR4 antagonists for preparation and/treatment of diseases)

RN 710978-26-0 RCAPUS

CN 2-Pyrimidinamine, N-(35)-(1,1'-bipiperidin|-3-yl-4-(hexahydro-1H-arepin-1-yl)- (CA TNDEX NAME)
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L22 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

=> d bib abs hitstr 121 tot

10 / 538758

121 ANSWEN 1 OF 26 HCAPLUS COPYRIGHT 2008 ACS ON STN
AN 2004:467883 HCAPLUS
II Preparation of 2.4.6-trisubstituted pyrimidines as phosphatidylinositol (pi) 3-kinase inhibitors and their use in the treatment of cancer
IN Nuss, John M.; Pecchi, Sabina; Renhowe, Paul A.
A Chiron Corporation, USA
D CTI Int. Appl., 151 pp.
CCOEN: PIXXD2
II English
FAN.CNT I RAPLICATION NO. DATE

ANSWER 2 OF 26 HCAPLUS COPYRIGHI 2008 ACS ON STN
AN 2003:837052 HCAPLUS
DN 139:337980
The perfect of aminopyrimidines with muscarinic M3 antagonist and PDE IV inhibiting activity
IN PROVINCE LAURENT Van Keulen, Berend Jan; Surtees, John; Talaga, Patrice;
PA UCB, 5.A., Bejust
OPET INT. Appl., 71 pp.
CODEN: PIXXD2
TO Patent
LA English
PARLENT 10. KIND DATE APPLICATION NO. DATE

AB

CM 1

L21 ANSWER 1 OF 26 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

Title compds. I [Y = (un)substituted alk(en/yn)yl, hetero/aryl, heterocyclyl; X = a direct link, NN and derivs. CHZ and derivs., O, S, SO, SCO, etc., Rl = H, alkyl, COZH, halo, OH and derivs., WHZ and derivs., (Un)substituted alkyl, cyclyl containing at least one heteroatoms with provisos; their stereoisomers, tautomers, pharmaceutically acceptable salts, setsers, or prodrugal were prepared as phosphatidylinositol (pi) 3-kinase inhibitors for treating neoplasm. A solid phase synthesis is qiven for pyrinidine II-CZPGOZH. Selected I displayed an ICSO < 20 µK in a cell proliferation assay.
701243-14-39, 3-[2-(Arepan-l-yl)-6-([H-indazol-5-yl]amino)pyrinidin-4-yl]phenol
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RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 2 OF 26 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)
CRN 617716-90-2
CMF C18 H28 N4

CM 2

CRN 110-16-7 CMF C4 H4 O4

Double bond geometry as shown.

RN 617716-94-6 HCAPLUS
CN 4-Pyrinidinamine, N,2-dicyclopropyl-6-(hexahydro-1H-azepin-1-yl)-5-methyl, (22)-2-butenedioate (1:1) (CA INDEX NAME)

CM 1

CRN 617716-93-5 CMF C17 H26 N4

CM 2

CRN 110-16-7 CMF C4 H4 O4

Double bond geometry as shown.

617716-96-8 HCAPLUS
4-Pyrinidinamine, N,2-dicyclopropyl-6-(hexahydro-lH-azepin-1-yl)-5-methyl-, (2E)-2-butenedicate (2:3) (CA INDEX NAME)

CM 1

L21 ANSWER 2 OF 26 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CM 2

Double bond geometry as shown.

RN 617717-01-8 HCAPLUS
CN 4-Pyrinidinamine, 5-chloro-N,2-dicyclopropyl-6-(hexahydro-1H-azepin-1-yl)-, (22)-2-butenedioate (1:1) (CA INDEX NAME)

CM 1

CM 2

CRN 110-16-7 CMF C4 H4 O4

Double bond geometry as shown.

RN 617717-03-0 HCAPLUS
CN 4-Pyrimidinamine, N.2-dicyclopropyl-5-fluoro-6-(hexahydro-1H-azepin-1-yl), (22)-2-butenediotate (1:1) (CA INDEX NAME)

CM 1

CRN 617717-02-9 CMF C16 H23 F N4

L21 ANSWER 2 OF 26 HCAPLUS COPYRIGHT 2008 ACS on SIN (Continued) CN 4-Pyrinidinamine, N-cyclopropyl-6-(hexahydro-H-azepin-1-yl)-5-methyl-2-(1-methylethyl)-, (22)-2-butenediate (1:1) (CA INDEX NAME)

CM 1

CRN 617717-07-4 CMF C17 H28 N4

CRN 110-16-7 CMF C4 H4 O4

но2С

617717-10-9 HCAPLUS
4-PyrIntidinanine, N-cyclopropyl-6-(hexahydro-1H-azepin-1-yl)-5-methyl-2[(1R, 2R)-2-methylcyclopropyl]-, rel-, (22)-2-butenedioate (1:1) (9CI) (CA
TNDEX NAME)

CM 1

CRN 617717-09-6 CMF C18 H28 N4

Relative stereochemistry.

CRN 110-16-7 CMF C4 H4 O4

Double bond geometry as shown.

RN 617717-12-1 HCAPLUS

L21 ANSWER 2 OF 26 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CM 2

CRN 110-16-7 CMF C4 H4 O4

Double bond geometry as shown.

617717-04-1 HCAPLUS
4-Pyrimidinamine, 5-bromo-N, 2-dicyclopropyl-6-(hexahydro-1H-azepin-1-yl)-(CA INDEX NAME)

617717-05-2 HCAPLUS 4-Pyrimidinamine, N,2-dicyclopropyl-6-(hexahydro-1H-azepin-1-yl)- (CA INDEX NAME)

617717-06-3 HCAPLUS
4,5-Pyrimidinediamine, N4,2-dicyclopropyl-6-(hexahydro-1H-azepin-1-yl)-(CA INDEX NAME)

RN 617717-08-5 HCAPLUS

L21 ANSWER 2 OF 26 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)
CN 4-Pytinidinamine, N-cyclopropyl-6-(hexahydro-lH-arepin-l-yl)-5-methyl-2[(1R,25)-2-methylcyclopropyl)-, rel-, (22)-2-butenedicate (1:1) (9CI) (CA
INDEX NAME)

CM 1

CRN 617717-11-0 CMF C18 H28 N4

Relative stereochemistry.

CRN 110-16-7 CMF C4 H4 O4

Double bond geometry as shown

2 СО2Н

RN 617717-13-2 HCAPLUS
CN 4-Pyrimidinamine, N-cyclopropyl-6-(hexahydro-1H-arepin-1-yl)-5-methyl-2[(1R, 2R)-2-methylcyclopropyl]-, rel-(-)- (CA INDEX NAME)

Rotation (-). Absolute stereochemistry unknown.

617718-39-5 HCAPLUS 4-Pyrinidinamine, 2-cyclopentyl-N-cyclopropyl-6-(hexahydro-1H-arepin-1-yl)-5-methyl-, momohydrochloride (9Cf) (CA INDEX NAME)

L21 ANSWER 2 OF 26 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

● HCl

617718-93-IP
RL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
(preparation of aminopyrimidines with muscarinic M3 antagonist and PDE IV
inhibiting activity)
617718-93-1 RCAPLUS
4-Pyrimidinamine, N,2-dicyclopropyl-6-(hexahydro-lH-azepin-1-yl)-5-nitro(CA INDEX NAME)

617736-99-10 617737-14-30 617737-16-5D
61773-13-06 617737-18-70 617718-28-2D
61773-13-07 617718-60-22 617718-28-2D
617718-55-79 617718-60-22 617718-35-5D
RLI SPN (Gynthetic preparation); TBN (Therapeutic use); BIOL
(Biology and the comparation of the comparati

CM 1

CRN 617716-98-0 CMF C18 H28 N4

CRN 110-16-7 CMF C4 H4 O4

L21 ANSWER 2 OF 26 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

617717-18-7 HCAPLUS 4-Pyrimidinamine, N-cyclopropyl-6-(hexahydro-1H-azepin-1-yl)-2-((1R,2R)-2-methylcyclopropyl)-, rel- (CA IMDEX NAME)

617718-28-2 HCAPLUS 2H-Azepin-2-one, 1-[2-cyclopropyl-6-(cyclopropylamino)-5-methyl-4-pyrimidinyl)hexahydro- (CA INDEX NAME)

617718-57-7 HCAPLUS
4-Pyrimidinamine, 2-cyclopropyl-6-(hexahydro-1H-azepin-1-yl)-5-methyl-N[(1R, 2R)-2-methylcyclopropyl]-, rel-, (2E)-2-butenedioate (1:1) [9CI] (CA
INDEX NAME)

CM 1

CRN 617718-56-6 CMF C18 H28 N4

Relative stereochemistry.

L21 ANSWER 2 OF 26 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued) Double bond geometry as shown.

RN 617717-14-3 HCAPLUS
CN 4-Pyrimidinamine, N-cyclopropyl-6-(hexahydro-1H-azepin-1-yl)-5-methyl-2[(1R, 2R)-2-methylcyclopropyl]-, rel-(+)- (CA INDEX NAME)

Rotation (+). Absolute stereochemistry unknown.

617717-16-5 HCAPLUS
4-Pyrinidinamine, N-cyclopropyl-2-(cyclopropylmethyl)-6-(hexabydro-1H-arepin-1-yl)-5-methyl-, (2E)-2-butenedioate (1:1) (CA INDEX NAME)

CM 1

CRN 617717-15-4 CMF C18 H28 N4

CRN 110-16-7 CMF C4 H4 O4

Double bond geometry as shown.

RN 617717-17-6 HCAPLUS
CN 4-Pyrimidinamine, 5-chloro-N-cyclopropyl-6-(hexahydro-1H-arepin-1-yl)-2[(]R, 2SH, 2--methylcyclopropyl]-, rel- (CA INDEX NAME)

Relative stereochemistry.

121 ANSWER 2 OF 26 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CM 2

Double bond geometry as shown.

RN 617718-60-2 HCAPLUS CN 4-Pytinidinamine, 2-cyclopropyl-6-(hexahydro-1H-azepin-1-yl)-5-methyl-N-[(1R,2R)-2-methylcyclopropyl)-, rel-, (2E)-2-butenedioate (2:3) (9CI) (CA INDEX NAME)

CM 1

CRN 617718-56-6 CMF C18 H28 N4

Relative stereochemistry.

CM 2

Double bond geometry as shown.

RN 617718-71-5 HCAPLUS
CN 4-Pytinidinamine, 2-cyclopropyl-6-(hexahydro-1H-azepin-1-yl)-5-methyl-N[(1R,25)-2-phenylcyclopropyl)-, rel-, (2E)-2-butenedioate (1:1) (9CI) (CA
INDEX NAME)

CM 1

CRN 617718-70-4 CMF C23 H30 N4

Relative stereochemistry.

L21 ANSWER 2 OF 26 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CM 2 CRN 110-17-8 CMF C4 H4 O4

Double bond geometry as shown.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 3 OF 26 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT RE.CNT 5

ANSWER 3 OF 26 HCAPLUS COPYRIGHT 2008 ACS on SIN 2003:796691 HCAPLUS 139:307788
Preparation of 5-cyanopyrimidine derivatives as anti-inflammatory agents Bechil, Dalsuke; Tamaura, Yosuke; Aral, Hitoshi; Tanagawa, Koji; Ohshima, Miki, Ichiro Ari, Iware, Miho, Hobayashi, Matsuye; Sato, Takashi; Miki, Ichiro Kyowa Hakko Koyoy Co., Ltd., Japan DCI Int. Appl., 169 pp. CODEN: PIXE2
Patent
Patent
CNT 1

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		co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KR,	KZ,	LC,	LK,	LR,	LS,	
		LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NI,	NO,	NZ,	OM,	PH,	
		PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	TJ,	TM,	TN,	TR,	TT,	TZ,	
		UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW							
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		FI,	FR,	GB,	GR,	HU,	IE,	IT,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	TR,	
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	AU20032	2096	8		A1		2003	1013		2003	0-UA	2209	68		21	0030.	328 <	<
PRAI	2002JP-	0090	640		A		2002	0328										
	2003WO-	JP04	009		W		2003	0328										
os	MARPAT	139:	3077	88														
GI																		

AB The title pyrinidine compds. I [wherein R1 and R3 = independently H, OH, halo, (un)substituted alkyl, alkoxy, alkylthio, aryl, aralkyl, or amino; R2 = (un)substituted amino) or ammonium salts or pharmaceutically For example, the compound II was prepared in a multi-aten synthesis. II showed 97% inhibitory activity against thymus and activation-regulated chemokine (TARC) Huff8 cells at 1 pM. Formulations containing I as an activation; II 611202-14-3P RL: DAG (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREF (Preparation); USAS (Uses)

RN 611202-14-3 RCAPLUS
RN 611202-14-3 RCAPLUS
RN 611202-14-3 RCAPLUS
RN 611202-14-3 RCAPLUS
RN 611204-14-3 RCAPLUS
RN 611204-14-4 RCAPLUS
RN 611204-14-4 RCAPLUS
RN 611204-14-4 RCAPLUS
RN 611204-14-1 RCAPLUS
RN 611204-14-1 RCAPLUS
RN 611204-14-1 RCAPLUS

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FAN., UR1 1.

PAN., UR1 1.

PA
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The title compds. [I; X = N, CRS; R1, R2 = H, alkyl; R3 = (un)substituted heterocyclyl or aryl; R4 = alkyl, alkowy, alkylthio, etc.; R5 = H, alkyl], useful for the treatment and/or prophylaxis of diseases which are associated with DPP IV, such as diabetes, particularly non-insulin dependent diabetes mellitus, and impaired glucose tolerance, were prepared and formulated. The properties of the properties of

- ANSWER 4 OF 26 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued) 582306-20-5 HCAPLUS S-Pyrinidinemethanamine, 4-amino-6-(2,4-dichlorophenyl)-2-(hexahydro-1H-arepin-1-yl)- (CA INDEX NAME)

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- ANSWER S OF 26 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 R4 = (un)substituted alkyl; R5 = halo| and their pharmaceutically
 acceptable salts were prepd. For example, condensation of
 thiocypantopyrimide II, e.g., prepd. from 3,4-dichloroaniline and
 acceptaminosthylamine provided trisubstituted pyrimidize III in 88% yield.
 In CDN/CyclinBl kinase inhibition studies, 88-examples of compds. I
 exhibited IGS values more than 100 nM. Compds. I are claimed useful for
 the treatment of diseases characterized by abnormal cell proliferation.
 1-y11-5-trillucromethylyprimidine 3428-60-09,
 1-|2-(3,4-Dichlorophenylamino)-5-triflucromethylpyrimidin-4-y1|arepan-4one IT
 - one
 RI: PAC (Pharmacological activity); SPN (Synthetic preparation);
 THU (Therapeutic use); BIOL (Biological study); PREP (Preparation);
 USES (USes)
 (drug candidate; preparation of trisubstituted pyrimidines as cyclin dependent kinase inhibitors)
 514833-48-9 HCAPLUS
 4H-Arepin-4-one, 1-[2-1(3,4-dichlorophenyl]amino]-5-(trifluoromethyl)-4-pyrimidinyl)hexahydro-3-phenyl- (CA INDEX NAME)

\$14838-60-9 HCAPLUS 4H-Acepin-4-one, 1-[2-[(3,4-dichlorophenyl)amino]-5-(trifluoromethyl)-4-pyrindidnyl)hexahydro- (CA INDEX NAME)

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L21 AN DN TI

- ANSMER S OF 26 NCAPLUS COPYRIGHT 2008 ACS on SIN
 2003:319721 NCAPLUS
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	PATENT						DATE			APPL						ATE		
PI																0021	014	<
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		co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	
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		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	OM,	PH,	
		PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	TJ,	TM,	TN,	TR,	TT,	TZ,	
		UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW							
	RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,	BY,	
		KG,	KZ,	MD,	RU,	TJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	
		FI,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	SK,	TR,	BF,	ВJ,	CF,	
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	CA24	6398	9		A1		2003	0424		2002	CA-2	4639	89		2	0021	014	<
	AU20023																	<
	EP14	3805	3		A1		2004	0721		2002	EP-0	7747	10		2	0021	014	
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		IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	SK			
	JP20055																	
	US20031									2002	US-0	2717	63		2	0021	016	<
	US71																	
	US20061									2005	US-0.	3133	80		2	0051	221	
PRAI	2001US-																	
	2002WO-																	
	2002US-				A3		2002	1016										
os	MARPAT	138:	3212	92														
GI																		

NO2

AB Title compds. I (R1 = H, alkyl; R2 = (un)substituted alkyl; R3 = H, alkyl;

- L21 ANSWER 6 OF 26 HCAPLUS COPYRIGHT 2008 ACS ON SIN
 AN 2002:44949 RCAPLUS
 D1 137:33318
 TI Preparation of pyrimidinylaminothiazoles as tyrosine kinase inhibitors.
 IN Bilodeau, Mark I.; Matthan, George D.; Hoffman, Jacob M., Jr.; Lumma,
 Anthony M.; Tucker, Thomas J.
 Anthony M.; Tucker, Thomas J.
 For Merck G.O., Inc., Use P.
 COLOR: PIXXD2
 COLOR: PIXXD2
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- MARPAT 137:33318
- Title compds. [I; A, B = N, NO; Y = O, S, NR4; R1, R2 = H, perfluoroalkosy, OH, cyano, halo, (substituted) alkyl(oxy)(carbonyl), aryl(oxy)(carbonyl), heterocyclyl, etc.; R6 = H, aryl, alkyl; R5 = H, SO2Rc, CORe, Rc, CO2Rc; R6 = aryl, oyano, halo, (substituted) alkyl, alkenyl, alkynyl, heterocyclyl, aminocarbonyl; Rc = alkyl, aryl, heterocyclyl, were prepared for treating angiogenesis, cancer, tumor growth, atherosclerosis, age related macular degeneration, diabetic retinopathy, inflammation, etc. Thus, 4-aminopyrimidine was stirred with NaH in THF; 2-bromo-5-phenylthiazol-2-yl pyrimidin-4-yl amine. I inhibited overnight to give 5-phenylthiazol-2-yl pyrimidin-4-yl amine. I inhibited vascular endothelial gooth factor-attimulated micogenesis of human vascular endothelial colls with IGSD = 0.0-5.0 MP.
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); USSS (Uses)
 (preparation of pyrimidinylaminothiasoles as tyrosine kinase inhibitores)
- ; USES (Uses)
 (preparation of pyrimidinylaminothiazoles as tyrosine kinase inhibitors)
 43683-13-9 HCAPLUS
 5-Thiazolecarbonitrile, 2-[16-(4-aminohexahydro-lH-arepin-l-yl)-4pyrimidinyl)amino|- (CA INDEX NAME)

121 ANSWER 6 OF 26 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE IT $436851\!-\!97\!-\!7P$

436851-97-79
RI: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); PACT (Reactant or reagent)
(Preparation); PACT (Reactant or reagent)
436851-97-71
436851-97-71
Acctandide, N-[13-(6-mino-4-pyrimidinyl)hexahydro-1H-arepin-4-yl)-2,2,2-trifluoro- (CA INDEX MAME)

L21 ANSMER 7 OF 26 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)

IT 426818-40-8P
RL PAC (Pharmacological activity); SPN (Synthetic preparation);
TH (TRIS)

L21 AN DN TI

ANSWER 7 OF 26 HCAPLUS COPYRIGHT 2008 ACS on STN 2002:391315 HCAPLUS 136:38613)
Preparation of pyrimidinyllactam-substituted pyrarolopyridines as inhibitors of CGMP degradation Stasch, Johannes-Peter; Feurer, Achin; Weigand, Stefan; Stahl, Elke; Flubacher, Dietmar; Alonso-Alija, Cristina; Wunder, Frank; Lang, Dieter; Dembowsky, Klaus; Straub, Alexander; Perzborn, Elisabeth Bayer AG, Germany Ger. Offen., 38 pp. CODEN: GMXXEX PACENT IN

PA SO

DT LA

FAI	N.CNT 1																	
	PATENT	NO.			KIN	D	DATE			APPL	ICAT	ION	NO.		D.	ATE		
						-									-			
PI	DE101	2289	5		Al		2002	0523		2001	DE-1	0228	95		2	0010	511 <-	
	CA24	2930	8		A1		2002	0530		2001	CA-2	4293	0.8		2	0011	109 <-	
	W020020	4229	9		Al		2002	0530		2001	WO-E	P129	65		2	0011	109 <-	
	W:	AE,	AG,	AL,	AM,	AT,	ΑU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,	
		co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,	
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	PH,	PL,	
		PT.	RO.	RU.	SD.	SE.	SG.	SI.	SK.	SL.	TJ.	TM.	TR.	TT.	TZ.	UA.	UG.	

Title compds. [I; R1 = NH2, NHCO(C1-6 alkyl); R2 = R3NCOR4; R3NCOR4 = (substituted) (annelated) 5-7 membered heterocyclyl containing an adminheteroatom) were prepared Thus, an 8/2 mixture of 3-(dimethylamino)-2-(3-oxo-4-morpholinyl)-2-propanenitrile (preparation given) was stirred with 1-(2-fluorobenzyl)-1H-pyracho[0.3,4-b]pyridine-3-carboxamidine (preparation given) in xylene at 120° overnight to give 5.568 4-(4-amino-2-1/a-(2-fluorobenzyl)-1H-pyracho[0.3,4-b]pyridin-3-yl)-5-pyrindinyl)-3-morpholinone. Several I showed a vessel relaxation effect with 1C50 = 0.25-1.59 µg.

CS SO

ANSMER 8 OP 26 NCAPLUS COPYRIGHT 2008 ACS on STN
1998:542424 NCAPLUS
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129:263

II 113259-25-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of pyrimidinyl amides as allergy inhibitors)
RCAPUS
CN 2,4-Pyrimidinediamine, 6-(hexahydro-lH-arepin-1-yl)- (CA INDEX NAME)

RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSMER 9 OF 26 HCAPLUS COPYRIGHT 2008 ACS ON STN
AN 1997:377861 HCAPLUS
DN 126:3243579
TP-opparation of pyrimidinylphyperatines as lipid peroxidation inhibitors
IN Andrasi, Ferenci Sutka, Rlara; Hodula, Esster; Szekeres, Tibor; Feher,
Gabor; Moravezik, Inner; Maryus, Peter; Sebestyen, Laszlo, Srabo, Hilda;
Eara, Erssebet; Horvath, Edit
PA Gyogyszerkutato Interet, Hung; Toldy, Marta; Toldy, Andras; et al.
SO BCT Int. Appl., 122 pp.
DEADER TO TEXT OF TRANSPORT OF TRA

AB Title compds. II, R = AX(CH2)r(CO)q(CH2)pR1; A = (un)substituted alkylene; R1 = (un)substituted aryl, R2.R2 = NH2 or N-attached heterocycly); X = bond, 800-2, (un)substituted inino; Z = CH2 or CH2CH2; p, q, z = 0 or 1] were prepared Thus, 1-(2-hydroxy-3-(2-naphthylthio)propyl)piperatine (preparation qiven) was N-arylated by 2,6-diamino-4-chloropyrimidine to qive I R = RISCH2CH(GN)CH2; R1 = 2-naphthyl, R2 = R3 = NH2, Z = CH2). Data for I 19000-77-2P off were qiven.

R1: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SDN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); BV USBS (USBS) (USBS)

ANSWER 10 OF 26 HCAPLUS COPYRIGHT 2008 ACS on STN
1997:260069 HCAPLUS
Synthesis and properties of 2,4-disubstituted 6-fluoropyrimidines
Popova, L. W., Studentsov, E. P.
5t. Petersburg, Gos. Tekhnol. Inst., St. Petersburg, 198013, Russia
Phurnal Organicheski Nthmil (1996), J2(9), 1424-1428
CUDEN: 20RMAE; ISSN: 0514-7492
Journal
Russian
CASREACT 126:277444
Reaction of 2,4-6-trifluoropyrimidine, 2-amino-4,6-difluoropyrimidine, and
4-amino-2,6-difluoropyrimidine with amines gave fluoropyrimidines containing
188967-82-89
EX. SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
189867-82-8 HCAPLUS
189867-82-8 HCAPLUS

II

ANSWER 9 OF 26 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued) 190001-49-1P 190001-50-4P 190001-51-5P REI REI REI RECACACHAIL; SPN (Synthetic preparation); PREP (Preparation); RACI (Reactant or reagent) (preparation of pyrimidinyl)piperatines as lipid peroxidn. inhibitors) 190001-49-1 HCAPLUS (CAINDEY NAME) (CAINDEX NAME) (CAINDEX NAME)

190001-50-4 HCAPLUS
1-Piperarinecarboxylic acid, 4-(6-amino-2-(hexahydro-1H-azepin-1-yl)-4pyrindidnyl)-, 1,1-dimethylethyl ester (CA INDEX NAME)

190001-51-5 HCAPLUS
4-Pyrinidinamine, 2-(hexahydro-1H-arepin-1-y1)-6-(1-piperaziny1)- (CA INDEX NAME)

ANSMER 11 OF 26 MCAPLUS COPYRIGHT 2008 ACS on STN
1995:780258 MCAPLUS
1291:66407
Preparation of sulfonylaminopyrimidines as endothelin antagonists.
Breu, Volker; Burri, Kaspar; Cassal, Hean-Marie; Clorel, Martine; Hirth,
Georges; Loeffler, Bernd-Michael; Mueller, Marcel; Neidhart, Werner;
Ramuz, Momri, Barboch Ag, Switz.
EUZ. Pat. Appl., 46 pp.
CODEN: EDEXION
Patent

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DT LA

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PI	EP633259 EP633259	A1 B1	19950111	1994EP-0109257	19940616 <
				B. GR. IE. IT. LI. LU.	MO 311 DE 60
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	IL110089	A	20000831	1994IL-0110089	19940622 <
	AU9465948	A	19950105	19941L-0110089	19940624 <
	AU678467	B2	19970529	199480-0003946	13340024 <
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	NO306403	B1	19991101	1334110 0001410	13340027
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	LT3723	В	19960226	1994LT-0001979	19940627 <
	LV11175	В	19960620	19941/V-0000131	19940627 <
	US5541186	A	19960730	1994US-0266072	19940627 <
	PI175771	BI	19990226	1994PI-0304007	19940627 <
	PL177031	B1	19990930	1994PL-0323036	19940627 <
	RU2142457	C1	19991210	1994RU-0022258	19940627 <
	CZ287184	B6	20001011	1994CZ-0001573	19940627 <
	JP07017972	A	19950120	1994JP-0146003	19940628 <
	JP2545200	B2	19961016		
	RO114325	В3	19990330	1994RO-0001112	19940628 <
	SK280736	B6	20000711	1994SK-0000779	19940628 <
PRAI	1993CH-0001924	A	19930628		
	1992IL-0101650	A0	19920420		
	1994CH-0001575	A	19940520		
05	MARPAT 123:169647				
GI					

X(CR^aR^b)mY

Title compds. (I; Rl-R3 = H, alkyl, alkowy, alkylthio, alkenyl, halo, CF3, hydroxyalkowy, haloalkowy, alkanoylalkyl, hydroxyalkyl, CO2H, amino, etc.; RE23, RSR6, RSR7 = butadienyl, methyl-nedicxy, rehylenedicxy, isopropylidenedioxy; R4 = H, alkyl, cycloalkyl, CF3, alkowy, alkylmyloxy, alkylthiolalkyl, hydroxyalkyl, dihydroxyalkoxy, alkylsulfinyl, alkylsulfonyl, aryl, arylthio, aryloxy, heterocyclyl, heterocyclylalkyl, ecc., RS-R9 = H, halo, CF3, alkyl, alkowy, alkythio, alkylsulfinyl, alkylsulfin AB

ANSWER 11 OF 26 HCAPLUS COPYRIGHT 2008 ACS on SIN (Continued) hydroxyalkyl, carboxyalkyl, alkoxycarbonylalkyl, alkanoyloxyalkyl, arylcarbamoylalkyl, heterocyclyl, heterocyclylalkyl, etc.; R11 = H, R10; m = 1-3; n = 0,1), were prepd. Thus, 2-pyridincarbonyl axide was heated in PhMe; 4-tert-butyl-M-[6-(2-hydroxyethoxy)-5-(2-methoxyphenoxy)-2,2'-1-bipyrimidin-4-yllbenreneuslifonanid was added to give pyridine-2-carbaminic acid. 2-[6-(4-tert-butylphenyleulfonylamino)-5-(2-methoxyphenoxy)-2,2'-1-byrimidin-4-ylloxylethyl seter. The latter at 30 methoxyphenoxy)-2,2'-2-byrimidin-4-yloxylethyl seter. The latter at 30 methoxyphenoxy)-2,2'-2-byrimidin-4-yloxylethyl seter. The latter at 30 methoxyphenoxy)-2,2'-2-byrimidin-4-yloxylethyl seter. The latter at 30 methoxyphenoxy-2,2'-2-byrimidin-4-yloxylethyl seter. The latter at 30 methoxyphenoxy-2,2'-2-byrimidin-4-yloxylethyloxy

USES (Uses) (preparation of sulfonylaminopyrimidines as endothelin antagonists) 167404-86-6 RCAPLUS (arbanic acid, 2-pyridinyl-, 2-[[6-[(1,3-benzodioxol-5-ylsulfonyl)amino]-2-(hexahydro-IH-azepin-1-yl)-5-(2-methoxyphenoxy)-4-pyrinidinyl)cxy|ethyl ester (9C1) (CA INDEX NAME)

L21 ANSWER 12 OF 26 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

137216-16-1 RCAPLUS 2(1H)-Pyrimidinimine, 4-(hexahydro-1H-azepin-1-yl)-6-methyl-1-(sulfooxy)-(CA INDEX NAME)

121 ANSWER 12 OF 26 HCAPLUS COPYRIGHI 2008 ACS ON SIN
AN 1991:656199 HCAPLUS
DI 1951:256199
TI PRINCIPAL PROPRIED TO THE PROPR 19900B2B <--19890829 <--19900824 <--19900824 <--19900828 <--19900828 <--19950605 <--19961218 <--

Title compds. [I; R = H, alkyl; R11 = H; RR11 = (CH2)3-5; R12 = H, alkanoyl, alkoxycarbonyl, substituted CONN2; X = H, NR1R2, alkoxy, alkylthio, PhO, etc.; R1, R2 = H, (cyclo)alkyl, alkenyl, (unisubstituted Ph, etc.; RNR2 = heterocyclyl; Y = 0, 0503- (Nhas pos. change)) were chloropyrimidine N-oxide was condensed with pyrrolidine and the product treated with pyridin-803 complex to give title compound II. 137:16-12-7P 137:26-16-1P RR: SPN (Synthetic preparation); PREP (Preparation) (preparation of, as hair loss retardant and growth stimulant) 2-Pyrinidinamine, 4-(hexahydro-lH-arepin-1-yl)-6-methyl-, 1-oxide (CA INDEX NAME) IT

121 ANSWER 13 OF 26 HCAPLUS COPYRIGHT 2008 ACS on STN
AN 1991:559166 HCAPLUS
THE PROPERTY OF T

L		CIAT I				
		PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
I	PΙ	EP434341	A1	19910626	1990EP-0313772	19901217 <
		EP434341	B1	19950517		
		R: AT, BE, CH,	DE, DI	K, ES, FR,	GB, GR, IT, LI, LU, NL,	SE
		HU56087	A2	19910729	1990HU-000B115	19901207 <
		HU207511	В	19930428		
		ZA9009852	A	19911030	1990ZA-0009852	19901207 <
		AU9067914	A	19910627	1990AU-0067914	19901210 <
		AU641960	B2	19931007		
		NO9005378	A	19910624	1990NO-0005378	19901212 <
		E52072993	T3	19950801	1990ES-0313772	19901217 <
		US5252567	A	19931012	1990US-0629502	19901218 <
		CA2032743	A1	19910623	1990CA-2032743	19901219 <
		FI9006306	A	19910623	1990FI-0006306	19901220 <
		JP03291277	A	19911220	1990JP-0404924	19901221 <
E	PRAI	1989GB-0029022	A	19891222		
	os	MARPAT 115:159166				

AB Title compds. I [R1 = C1-10 alkyl, C3-8 cycloalkyl, (substituted) Ph. etc.; R2 = H. C1-4 alkyl, E2N. C1-4 alkylamino; R5 = H. C1-4 alkyl, C2-4 alkyly, E6 C1-4 alkyl, E2N. C1-4 alkylamino; R3 = H. C1-4 alkyl, C2-4 alkyly, E6 C1-4 alkyl, E6 C1-4 alkyl, E7 C1-4 alkylamino; R3 = H. C1-4 alkyl, E7 C1-4 alky

136346-34-4P RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU

L21 ANSWER 13 OF 26 HCAPLUS COPYRIGHT 2008 ACS ON SIN (Continued) (Therapeutic use): BIOL (Biological study): PREP (Preparation): USES (USES) (preps. of, as cardiovascular agent)
RN 18518-34-4 HCAPLUS
CN Methanamine, NH-16-(hexahydro-1H-arepin-1-yl)-2, 3-dimethyl-4(3H)-pyrimidinylidene)-, monohydriodide (9CI) (CA INGEX NAME)

• HI

ANSHER 14 OF 25 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)
4-methylanino-2-(4-phenylpiperdino)pyrimidine. The latter in THF contg.
EXR was treated with PhoCol in THF and them with pyridine. The mixt was
stirred 2 days to give 70% title compd. II. I increased twitch tension in
rats with crushed sciatic nerves from 33.3% of normal (controls) to
40.1-51.2% at 10-20 ng/Kg i.p. daily over 30 d.
HL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as nervous system agent)
1310375-75-75 HCAPLUS
Benzamide, N-[2-(hexahydro-1H-azepin-1-yl)-4-pyrimidinyl)-N-methyl- (CA
INDEX NAME)

131038-83-0 HCAPLUS Benzamide, N-[2-(hexahydro-1H-azepin-1-yl)-4-pyrimidinyl]-N-methyl-, monbydrochloride (9CI) (CA INDEX NAME)

ANSWER 14 OF 26 HCAPLUS COPIRIGHI 2008 ACS on SIN
1991:23983 HCAPLUS
114:23983
Preparation of 2-aminopyrinidines as nervous system agents
Tomino, Ekuo, Takesne, Mitsuyuki, Kihara, Noriaki, Kitahara, Takumi;
Tomino, Ekuo, Takesne, Mitsuyuki, Kihara, Noriaki, Kitahara, Takumi;
Mitsuy Pertochemical Industries, Jaka, Japan; Mitsuyi Phatmaceuvicals, Inc.
EUR. Pat. Appl., 154 pp.
CODEN: EEXXXDW
Patent

PA SO

DT

LA	English CNT 1								
E PUIV.	PATENT NO.		KINE		DATE		APPLICATION NO.	DATE	
PI	EP379806 EP379806 EP379806		A2 A3 B1		19900801 19910529 19960410		1989EP-0313595	19891227	<
		сн.		RS.		GR.	IT. LI. LU. NL. SE		
	JP02221275	,	A		19900904		1989JP-0041729	19890223	<
	HII52769		A2		19900828		1989HU-0006762	19891222	
	HU206337		B		19921028		1303110-0000701	13031111	
	HU61293		A2		19921228		1992HU-0001485	19891222	<
	HU210001		В		19950130				
	HU61313		A2		19921228		1992HU-0001487	19891222	<
	HU209594		В		19940829				
	HU61288		A2		19921228		1992HU-0001488	19891222	<
	HU209574		В		19940829				
	JP03014568		A		19910123		1989JP-0334759	19891226	<
	JP2744663		B2		19980428				
	EP612746		A1		19940831		1994EP-0105018	19891227	<
	R: DE, FR,	GB,	II						
	AT136542		T		19960415		1989AT-0313595	19891227	<
	AU8947329		A		19900705		1989AU-0047329	19891228	<
	AU629595		B2		19921008				
	CA2006944		Al		19900629		1989CA-2006944	19891229	<
	CN1045390		A		19900919		1989CN-0109731	19891229	<
	CN1037513		В		19980225				
	US5147876		A		19920915		1989US-0459376	19891229	
	USS264435		A		19931123		1992US-0888726	19920526	<
	CN1090846		A		19940817		1993CN-0119388	19931021	<
PRAI	1988JP-0333670		A		19881229				
	1989JP-0041728		A		19890223				
	1989JP-0041729		A		19890223				
	1989HU-0006762		A3		19891222				
	1989EP-0313595		A3		19891227				
	1989US-0459376		A3		19891229				
os	MARPAT 114:23983	3							

The title compds. [I; Rl = H, alkyl; X = morpholino, (substituted) pyrrolidino, piperidino, arepino, piperazino, tetrahydroquinolinyl, tetrahydroquinolinyl, etc.; Y = anino, pyridin-4-ylcarbonyl, piperidinyl-N-carbonyl, phenylcarbamoyl, benzoyl, phthalimido, etc., (CHR2C; R2 = H, alkyl, alkoy, alkylthio, dialkylamino; Z = H, halo, alkyl, alkoxycarbonyl), were prepared Thus MeWHZ in MeOH was added to 2.4-dichloropyrimidine in CHR2C12 at 5° Zoliowed by stirring for 12 h at room temperature to give 2-chloro-t-methylaminopyrimidine. The latter was heated with 4-phenylpipipirdine in Subin at 130° for 1 h to give

ANSMER 15 OF 26 HCAPLUS COPYRIGHT 2008 ACS ON STN
1988:590353 MCAPLUS
1093:190353
Synthesis of new substituted 5,6-dihydrotetrazolo[1,5-c]quinazolines,
tetrazolo[1,5-c]quinazolines, 5,6-dihydrotetrazolo[1,5-c]pyrimidines,
and 5,6-dihydrotetrazolo[1,5-c]pyrimidines
Ried, Walter; Aboul-Petouh, Saleh
Inst. Org. Chem., Univ. Frankfurt, Frankfurt/Main, D-6000/70, Fed. Rep.
Ger.

Ger. Chemiker-Zeitung (1988), 112(4), 135-40 CODEN: CMKZAT; ISSN: 0009-2894 Journal German CASREACT 109:190353 so

AB S,6-Dihydrotetrarolo[1,5-c]quinasolines I [R = H, Cl, 02N; Rl = CCl3, C6H2(OMe)3-3,4,5, C6H4CO2Me-4, C6H3Cl2-2,6, C6H4Cl-4; R2 = H] were prepared by cyclocondensation of tetrarolylantlines II with RICHO. I (R = H, Cl, 02N; Rl = Me, Pr; R2 = Et, Pr, COMG, CH3COMM) were prepared by cyclocondensation of II with RICHOZ. 5,6-Dihydropyrimido[5,4] with Charlest and Racino. 5,6-Dihydrotetrarolo[1,5-c]pyrimidines V [R5 = H, Me, MeS; R6 = Ph, C6H4Cl2-2,6, C6H4CO2Me-4, C6H2Cl2-3,6, C6H4CO2-4, C6H2Cl2-2] were prepared from nitriles VI and Racino.

II 117086-03-00 RACI (Reactant or reagent)
(Preparation); RACI (Reactant or reagent)
RN 117086-03-00 RCAPLUS
S-Pyrimidinecarbonitrile, 4-amino-2-(hexahydro-1H-arepin-1-yl) - (CA INDEX NAME)

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L21 ARSMER 15 OF 26 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)
IT 117085-75-3P (Synthetic preparation); PREP
(Preparation); RATC (Reactant or reagent)
(preparation and cyclocondensation of, with aldehydes)
RN 117085-75-3 HCAPLUS
(CA 1ROEX NAME)
(CC 1ROEX NAME)

L21 ANSWER 16 OF 26 HCAPLUS COPYRIGHT 2008 ACS on SIN

L21 ANSWER 16 OF 26 HCAPLUS COPYRIGHT 2008 ACS on STN
AN 1988:112484 HCAPLUS
N 108:112484 TO Preparation of hiterocyclylpyrimidinedioxamates as allergy inhibitors
TI Preparation of hiterocyclylpyrimidinedioxamates as allergy inhibitors
Westenbeen Akthick Matsushima, Takeo; Ban, Masakaru; Aoki, Shoichi;
PA Toyobo Co., Ltd., Japan
S Eur. Pat. Appl., 21 pp.
CODEN: EEXXDW
D Patent
LA English
Registrative Matsuskima

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP243817	A1	19871104	1987EP-0105671	19870416 <
	R: DE, FR, IT				
	US4729995	A	19880308	1987US-0033734	19870403 <
	JP63246368	A	19881013	1987JP-0091615	19870414 <
PRAI	1986JP-0091482	A	19860421		

1986JP-0279040 A 19861122 OS CASREACT 108:112484; MARPAT 108:112484 GI

AB The title compds. [I; Rl. R3 = H, alkyl. PhcN2, alkali metal cation, NM4+, R2 = H, halo, alkyl, alkowy, aryl, NM2. (heteroloychic amino) were prepared as allergy inhibitors. 2.4-Diamno-6-piperidinopyrimidine in pyrtidine was condensed with Rt oxalyl chloride with initial cooling. The mixture was worked up after 1 h at room temperature to give I (R1 = R3 = Rt, R2 = piperidino) (II). At 3 mg/kg l.v. in rats, II gave 90.6% inhibition of passive cutaneous anaphylaxis.

II 112539-25-9
RL RGT (Reactant); RGCT (Reactant or reagent)
RL RGT (Reactant) reagent; nihibitor;
RN 12539-25-9 s RCAPUS
CN 2.4-Pyrimidinediamine, 6-(hexahydro-1H-arepin-1-y1)- (CA INDEX NAME)

II

113259-20-4P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (USES) (preparation of, as allergy inhibitor) 11259-20-4 RCAPLUS Acetic acid, 2,2-1[6-(hexahydro-lH-arepin-l-yl)-2,4-pyrimidinedly|dimino|bis|2-okc-, dimethyl ester (9CI) (CA INDEX NAME)

Condensation of the title compound I with o-NNNC6H45H gave 23-774 II (R = H, Et. PhcH2, MeSNRCCH2, Et2NCH2CH2). Treatment with Et30+884- gave 37 and 494 III (R = Et, PhcH2). Psylmidopyrroloarepines IV (R = Me, H, N1 = Me; R = Me, R1 = H) were obtained in 4-504 yields by condensation of I with the corresponding announcealis. Condensation of I with thickness of the corresponding announcealis. Condensation of I with thioures gave 754 4-88 PKI. SPN (Synthetic preparation) FREE (Preparation) (preparation of) (573-44-8 HGADHUS ACCOUNTS (FREE (Preparation) (SYNTHE (FREE HGADHUS ACCOUNTS (FREE HGAD

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- L21 ANSMER 18 OF 26 HCAPLUS COPYRIGHT 2008 ACS on STN
 N 1976:17283 HCAPLUS
 N 84:17283 HCAPLUS
 N 84:17283 HCAPLUS
 OREF 84:2863a, 2866a
 I Purine studies. XVII. Synthesis of 2-substituted 6,9-di- and
 6,9-trimethylpurines as amplifiers of phleomycin
 AU Bhushan, Kui; Brown, Demnord J; Lister, John H; Stephanson, Lawrence G.;
 Toneda, Funch. Med. Res., Canberra, Australia
 S Australian Journal of Chemistry (1975), 28(11), 2553-9
 CODEN: AJCHAS; ISSN: 0004-9425
 D Journal

- Australian Journal of Chemistry (1975), 28(11), 2553-9
 COUDER: AJCHAS; ISSN: 0004-9425
 COUDER: AJCHAS; ISSN: 0004-9425
 English
 For diagram(s), see printed CA Issue.
 2-(6,8,9-Trimethylpurin-2-ylthio) acetamide (I, R = SCH2CONH2, R1 = Me) and analogous Ns-substituted acetamides are prepared by treatment of 6,8,9-Trimethylpurin-2-thione with an appropriate 2-chloroacetamide.
 6,8,9-Trimethylpurin-2-thione with an appropriate 2-chloroacetamide.
 6,8,9-Trimethylpurin-2-thione with an appropriate 2-chloroacetamide.
 6,8,9-Trimethyl-2-cpiperdial-2-ylipurin II(R = piperdian, R1 = R1) and some
 2-chloro-4-methyl-6-methylamino-5-mitropyrimidine followed by reduction of the nitro group and final cyclitation with ROSH. Such purines enhance the lethal effect of phleomycin on Escherichia coli cultures.
 7880-52-10; NACI (Reactant): SPN (Synthetic preparation); PREP
 (Preparation): NACI (Reactant or reagent)
 Fresporation): NACI (Reactant or reagent)
 57880-52-1 RCAPULO
 5

- 4,5-Pyrimidinediamine, 2-(hexahydro-1H-azepin-1-yl)-N4,6-dimethyl- (CA

- 57880-51-0P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and reduction of) 57880-51-0 HCAPLUS

- ANSWER 20 OF 26 HCAPLUS COPYRIGHT 2008 ACS on STN
 AN 1975:4203 HCAPLUS
 DN 82:4203
 DN 82:

L21 ANSWER 19 OF 26 HCAPLUS COPYRIGHT 2008 ACS ON STN
NN 1978:140173 RCAPLUS
DN 82:140173
ORDE 82:22399a, 22402a
II 2.4.6-Trisubstituted pyrimidines
IN Tani, Hideo; Nakamura, Koji; Mori, Shizuhiro; Yokoo, Nobuo; Kyotani,
PA KOWA Coo, Ltd.
50 Jpn. Tokkyo Koho, 12 pp.
COOEN: JAXXAD
DI Patent
L0 JAXAD
DI Patent
L0 JAPANES
FAN.COEN: JAXXAD
DI PATENT NO. KIND DATE APPLICATION NO. DATE

A Japanese
FAN.CHT 1
PATENT NO. KIND DATE APPLICATION NO. DATE
PI NUP-49021188 B 13740331 1970JP-0127609 13701228 <--PI NUP-49021188 B 13740331 1970JP-0127609 13701228 <--PI NUP-49021189 B 13740331 1970JP-0127609 13701228 <--PI NUP-49021189 B 13740331 1970JP-0127609 13701228 <--SAN 1370JP-0127609 B 1370JP-0127609 13701228 <--PI NUP-49021189 See printed 701288

AB Sixty-three antiniflammatory (no data) pyrimidines (R = 4-pyridyl), Ph, etc., Pl = NMe2, Ochi2cHXMe2, NE2, morpholino, NMP, piperidino, OMe, etc., R = NMe2, Ochi2cHXMe2, NE2, morpholino, NMPCHICHICH, NHCXCHI2OH, etc.) were prepared by reacting 1 (R = 1 C + 1 C

L21 ANSWER 21 OF 26 HCAPLUS COPYRIGHT 2008 ACS on STN
AN 1969:115172 HCAPLUS
N 70:115172 HCAPLUS
OREF 70:215189, 215194
T1 1,2-215189, 21518

IA French
FRAN.CNT 2

PATENT NO. KIND DATE APPLICATION NO. DATE

PRATE PRATERI NO. KIND DATE APPLICATION NO. DATE

PRATE PRATE

121 ANSWER 21 OF 26 HCAPLUS COPYRIGHT 2008 ACS on SIN (Continued)

L21 ANSMER 22 OF 26 HCAPLUS COPYRIGHT 2008 ACS ON SIN AN 1967:454154 HCAPLUS COPYRIGHT 2008 ACS ON SIN AN 1967:454154 HCAPLUS COREF 67:10195a, 10398a TI Uracils in herbicide compositions IN LOUK, Marvey M. Pa du Pont de Nemours, E. I., and Co. 50 Fr. 21 pp. Compositions From the Product Composition of the Product Com

FR CH DE GB 19661209

ANSWER 23 OF 26 NCAPLUS COPYRIGHT 2008 ACS on STN

AN 1966:93457 NCAPLUS

DN 64:93457

ON 64:93457

AN 1966:93457 NCAPLUS

DN 64:93457

AN 1966:93457 NCAPLUS

DN 64:93457

AN 1960:93457 NCAPLUS

BOSTOWNER 41:17367

AN 1960:93467

BOSTOWNER 1960:93467

DOSTOWNER 1960:93467

AN 26:18467

AN 26:18467

AN 26:18467

AN 26:18467

AN 26:18467

AN 26:18467

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AN 26:18467

BOSTOWNER 26:18467

AN 26:18467

BOSTOWNER 26:184 II 5767-40-8

(Derived from data in the 7th Collective Formula Index (1962-1966))

RN 5767-40-8 NCAPLUS

CN 1H-Acceptine, 1-(6-azido-4-pyrimidinyl)hexahydro- (CA INDEX NAME)

IT 5767-37-3P, Hexamethylenimine, 1-(6-hydrazino-4-pyrimidinyl)RL: PREP (Preparation)
RN: 5767-37-3 HCAPUS
RN 5767-37-3 HCAPUS
RN 4(1H)-Pyrimidinoe, 6-(hexahydro-1H-azepin-1-yl)-, hydrazone (9CI) (CA
INDEX NAME)

L21 ANSWER 25 OF 26 HCAPLUS COPYRIGHT 2008 ACS on STN AN 1959:2101 HCAPLUS L21 ANSWER C. ...
N 1959:2101 HCAPLUS
DN 53:2101
S3:2101
DIUTELICS. Organomercurials. III. 4,6-Diaminopyrimidines
Diutelics. Organomercurials. III. 4,6-Diaminopyrimidines
All Whitehead, Calvert W.; Traverso, John J.
CS Lilly Research Labs., Indianapolis, IN
JOURNAL of the American Chemical Society (1958), 80, 2185-9
CODEN: JACCAT; ISSN: 0002-7863 Diuretics. Organomercurials. III. 4,6-Diaminopyrimidines
Mintehead, Calvert W. 1 Traverso, John J.

Lilly Research Labs., Indianapolis. IN

Journal of the American Chemical Society (1958), 80, 2185-9

Journal of the American Chemical Society (1958), 80, 2185-9

Journal Other Chemical Society (1958), 80, 2185-9

Journal Society (1958), 80, 2185-9

Jo

L21 ANSMER 26 OF 26 HCAPLUS COPYRIGHT 2008 ACS on SIN AN 1936:4978 HCAPLUS DN 50:4978 OREF 50:1094d-i II Substituted 5-phenylpyrimidines PA Societe des usines chimiques de Rhone-Poulenc DT Patent LA Unavailable FAN.CNT I

KIND DATE

PATENT NO.

APPLICATION NO. DATE

Distort
PAN.CHT
PAN.CH

121 ANSWER 25 OF 26 HCADLUS COPYRIGHT 2008 ACS on 6TM (Continued)
1-pyrrolidinyl, 95, 243°, Et2N, 39, 132° (pK*a.5.7);
morpholino, 72, 197°, piperidino, 97, 185°, homopiperidino,
81, 208° (pK*a.5.7); Pe2N, 33, 39°, MeDN, 82, 181°.
4,6-Dichloropyrimidine (V) (7.4 g.) mixed with 21.5 g. PhcH2NH2, heated 3
hrs. on the steam bath, dissolved in hot EtoN, and cooled gave 6.5 g.
4,6-Dickloropyrimidine, m. 234-5°, the filtrate evapd., and
the proper of the steam bath, dissolved in hot EtoN, and cooled gave 6.5 g.
4,6-Dickloropyrimidine, m. 234-5°, the filtrate evapd., and
the proper of the proper of the steam bath with 1,95 g. V. and cooled yleided 6.9 d.-chloro-6-(2phenosyethylamino)pyrimidine, m. 160 cc. 208 BtOH heated 12 hrs. on
the steam bath with 3,95 g. V. and cooled yleided 6.9, 4-chloro-6-(2phenosyethylamino)pyrimidine, m. 38-100° (EtoAc-petr. ether).
FUTURYlaminop typrimidine, m. 38-100° (EtoAc-petr. ether).
Similarly
was prepd. 4-chloro-6-piperidino-pyrimidine, m. 78°, 934. VI (1
g.) and 1 g. Met in 25 cc. EtoAc refluxed 1 hr. and cooled gave 1.2 g.
VI.Met, m. 121°, pk's in 66% HCOMBc2 12.8. The pk's avalues were
detd. in 66% HCOMBc2 for the following compani, i.-d-amino-6-(-phenyl-incool./kg. body wt. over the normal output during 3 hrs., starting 1
hr. after dosage; the diuretic response was from doses of 5 and 10
ng./kg.; a value of 104 was obtained for a 20 ng./kg. dose of
1-ally1-3-ethyl-6-aminouracil. The Libo values for the compds. tested
varied between 500 and 1500 mg./kg. included that
in 10378-52-4 HCAPLUS
CN Hexamethylenimine, 1-(6-amino-4-pyrimidinyl) - (6CI) (CA INDEX NAME)

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PRE-1967 CHEMICAL ABSTRACTS FILE WITH HOUR-BASED PRICING FILE COVERS 1907-1966

FILE LAST UPDATED: 01 May 1997 (19970501/UP)

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=> d bib abs 127 tot
YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:n

=> => b hcap FILE 'HCAPLUS' ENTERED AT 17:31:31 ON 19 FEB 2008 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 19 Feb 2008 VOL 148 ISS 8 FILE LAST UPDATED: 18 Feb 2008 (20080218/ED)

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=> d bib abs hitstr 127 tot

- 127 ANSMER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on STN

 AN 1966:93457 HCAPLUS

 DN 64:93457 HCAPLUS

 The fair state of the first st
- II 5767-37-3P, Hexamethylenimine, 1-(6-hydrarino-4-pyrimidinyl)RL: PREP (Preparation)
 (preparation of)
 (NN 5767-37-3 RCAPLUS
 CN 4(NH-9Pyrimidinone, 6-(hexahydro-1H-azepin-1-yl)-, hydrazone (9CI) (CA INDEX NAME)



```
=> d his
     (FILE 'HOME' ENTERED AT 17:02:37 ON 19 FEB 2008)
     FILE 'HCAPLUS' ENTERED AT 17:03:28 ON 19 FEB 2008
             1 US20070167459/PN
     FILE 'REGISTRY' ENTERED AT 17:03:52 ON 19 FEB 2008
     FILE 'HCAPLUS' ENTERED AT 17:03:58 ON 19 FEB 2008
                                  1829 TERMS
L2
                TRA L1 1- RN :
     FILE 'REGISTRY' ENTERED AT 17:03:59 ON 19 FEB 2008
L3
           1829 SEA L2
T.4
           1375 L3 AND (NC6 AND NCNC3)/ES
L_5
                STR
              0 L5
L6
           3911 NC6/ES AND NCNC3/ES
1.8
            50 L5 SAM SUB=L7
           2301 L5 FULL SUB=L7
T. 9
                SAV TEM L9 J758C4A/A
L10
           1368 L9 AND L4
           933 L9 NOT L10
L11
     FILE 'HCAPLUS' ENTERED AT 17:13:07 ON 19 FEB 2008
L12
             51 L11
             40 L12 AND (PD<=20050610 OR AD<=20050610 OR PRD<=20050610)
L13
             30 L12 AND PD<=20040610
L14
L15
             26 L14 AND L11 (L) PREP+NT/RL
             4 L14 NOT L15
L16
                SEL HIT RN
     FILE 'REGISTRY' ENTERED AT 17:15:01 ON 19 FEB 2008
L17
             4 E1-4
     FILE 'HCAPLUS' ENTERED AT 17:16:03 ON 19 FEB 2008
                SEL HIT RN L15
     FILE 'REGISTRY' ENTERED AT 17:16:26 ON 19 FEB 2008
T-18
             58 E5-62
L19
             1 L18 AND C10H14N6
             57 L18 NOT L19
L20
     FILE 'HCAPLUS' ENTERED AT 17:24:30 ON 19 FEB 2008
L21
             26 L20 AND L15
     FILE 'REGISTRY' ENTERED AT 17:25:30 ON 19 FEB 2008
     FILE 'HCAPLUS' ENTERED AT 17:26:13 ON 19 FEB 2008
L22
     FILE 'HCAOLD' ENTERED AT 17:27:58 ON 19 FEB 2008
L23
             0 L10
              3 L9
L24
               SEL HIT RN
     FILE 'REGISTRY' ENTERED AT 17:28:18 ON 19 FEB 2008
L25
           4 E63-66
              1 L25 AND C10H17N5
L26
     FILE 'HCAPLUS' ENTERED AT 17:28:55 ON 19 FEB 2008
             1 L26 AND L24
L27
=> b hcap
FILE 'HCAPLUS' ENTERED AT 13:13:34 ON 20 FEB 2008
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FILE COVERS 1907 - 20 Feb 2008 VOL 148 ISS 8 FILE LAST UPDATED: 19 Feb 2008 (20080219/ED)

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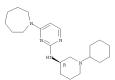
=> d bib abs hitstr lll tot

L11 ANSMER 1 OF 1 HCAPLUS COPYRIGHI 2008 ACS ON SIN
AN 2004:515487 HCAPLUS
DN 141:71555
I Preparation of nitrogen-containing heterocyclic compounds as CXCR4 regulators
I Hebashita, Hiromu; Kokubo, Masaya; Shibayama, Shiro; Tada, Hideaki;
TANIHITO, Tatsuya
DO DETERMANCEURICAL CO., Ltd., Japan
SO CODEN: PIXXD2
D Patent
LA Japanese
FAN.CNI 1
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FAN.CNI ADDATE APPLICATION NO. DATE

A)1-(B)-Y T-(B)-Y TI

Compds. such as pyrimidine and quinaroline derivs. represented by the following general formulas (I) and (III), salts thereof, N-oxides thereof, solvates thereof or prodrugs of the same (wherein the ring A represents an optionally substituted introgen-contenting heterocycle; the ring A represents an optionally substituted hydrocarby! group, an optionally substituted heterocycle; or represents an optionally substituted hydrocarby! group, an optionally protected amino group, an optionally protected hydroxyl group or an optionally protected mercapto group; and Trepresents the ring A or an optionally substituted hydrocarby! group, an optionally protected mercapto group; and Trepresents the ring A or an optionally substituted hydrocarby! inflamatory diseases, immuned inflamatory diseases, inflamatory diseases, immune diseases, various allergic diseases, infections diseases, cardiooscular diseases, metablic diseases, occupied hydroxy diseases, occupied hydrox

L11 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)



711006-64-3 RCAPLUS 2-Byrinidinamine, N-[(35)-1-cyclohexyl-3-piperidinyl)-4-(hexahydro-1H-arepin-1-yl)- (CA INDEX NAME)

Absolute stereochemistry.

L11 ANSMER 1 OF 1 HCAPLUS COPTRIGHT 2008 ACS on SIN (Continued) (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preps. of nitrogen-contg. heterocyclic compds. as CXCR4 antagonists for preps. and/treatment of diseases)

RN 710982-05-1 RCAPLUS

CN 2-Pytrindinamine, 4-(hexahydro-lH-arepin-1-y1)-N-[3-(1-piperidinyl)cyclohexy1]- (CA INDEX NAME)

710982-11-9 HCAPLUS
2-Pyrimidinamine, 4-(hexahydro-1H-azepin-1-yl)-N-[trans-4-(1-piperidinyl)cyclohexyl]- (CA INDEX NAME)

Relative stereochemistry.

RN 710982-28-8 HCAPLUS
CN 2-Pyrimidinamine, 4-(hexahydro-1H-azepin-1-yl)-N-[(1R,2R)-2-(1-piperidinyl)cylohexyl]-, rel- (CA INDEX NAME)

Relative stereochemistry.

710986-02-0 HCAPLUS
2-Pyrimidinamine, N-[(3R)-1-cyclohexyl-3-piperidinyl]-4-(hexahydro-1H-arepin-1-yl)- (CA INDEX NAME)

Absolute stereochemistry.

=> d his

1.6

(FILE 'HOME' ENTERED AT 13:08:43 ON 20 FEB 2008)

FILE 'HCAPLUS' ENTERED AT 13:08:54 ON 20 FEB 2008 L1 1 US20070167459/PN

FILE 'REGISTRY' ENTERED AT 13:09:18 ON 20 FEB 2008

FILE 'HCAPLUS' ENTERED AT 13:09:18 ON 20 FEB 2008

1829 TERMS L2 TRA L1 1- RN :

FILE 'REGISTRY' ENTERED AT 13:09:19 ON 20 FEB 2008 L3 1829 SEA L2

ACT J758C4A/A

L4STR

L5 3911) SEA FILE=REGISTRY ABB=ON PLU=ON NC6/ES AND NCNC3/ES

2301 SEA FILE=REGISTRY SUB=L5 SSS FUL L4

L71368 L6 AND L3

L8 20 L6 AND C21H35N5

12 L8 AND NC6/ES AND C6/ES AND NCNC3/ES L9

5 L9 AND NC5/ES T.10

FILE 'HCAPLUS' ENTERED AT 13:13:11 ON 20 FEB 2008

L11 1 L10

=> b hcap FILE 'HCAPLUS' ENTERED AT 13:32:23 ON 20 FEB 2008 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d bib abs hitstr 118 tot

AN DN TI

ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2008 ACS ON SIN 2005.184554 RCAPLUS 144:150232 Preparation of pyrimidine derivatives as potential medicinal agents by the reaction of z-amino-4-chloro-6-methylpyrimidine with primary and secondary anines Becker, Irwin Department of Chemistry, Villanova University, Villanova, PA, 19085, USA CODEN: HTGAD: ISBN: 0022-152X ReteroCorporation 1002-152X ReteroCorpora

CODEN: JMILAN,

MeteroCorporation
Journal

GONDAN THE METEROCOPPORTAGE

AGASHBART 144:150323

Thirteen derivs. of pyrimidine were prepared as potential medicinal agents by the reaction of 2-amino-4-chloro-6-(methyl)pyrimidine with primary and secondary amines in the absence of a solvent. Six of the derivs. are (piperatinyl)pyrimidine derivs. The compos. prepared in this work may prove to be efficacious in the treatment of inflammation, hypertension, anxiety, and the composition of the composition

RE.CNT 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2008 ACS ON STN
2005:123192 HCAPLUS
142:123131
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143:12313 IN PA SO DT LA FAN | CANT | CANTE | CANTE

The title compds. I [A, B = H, alky]. (un)substituted NH2. alkoxy; X = halo, alky]. OH. etc.; m = 1-2; n = 1-3; when m and n are both 2, Z = N, alky]. OH. etc.; m = 1-2; n = 1-3; when m and n are both 2, Z = N, alky]. On the preventing or treating the preventing or treating parasitic diseases, and for the prevention or treating parasitic diseases, and for the prevention or treating 4-chloro-2,6-diaminopyrimidine with 4-phenylpiperidine in the presence of Ki in DMF followed by treating the resulting free base with 0.5 M HCl in Meoh afforded 6-(4-phenylpiperidin-1-yi)pyrimidine-2,-dione hydrochloride which showed inhibited motility of the M. controlus larvae useful for preventing or treating parasitic diseases, is disclosed. 841295-83-89 841295-83-90 RI: AGR (Agricultural use); SBU (Biological study, unclassified); PAC (Pharmacological activity); SPN (Synthetic preparation); IMU (Therapeutic use); SBU (Biological study); PADR (Preparation); MU (Padration); MU (Padration); MU (Padration); MU (Padration); MU (Padration); MU (Padration); MU (Pad

ANSWER 2 OF 9 HCAPLUS COPYRIGHT 2008 ACS ON STN
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144:3

PB DT LA OS GI

English CASREACT 142:392365

Upon treatment with sodium alkoxides, N-methyl-N-(6-amino-5-nitro-4-pyrinidinyl) aminoacetic acid Me esters I [RI = N, Ph, 3-F3CC6H4, R2 = N; R1 = Me, Pk, 2-Me02CCH2, Ph; R1R2 = (CRI)6) undergo ring closure and rearrangement to give 6-substituted 4-methylamino-5-nitrosopyrimidines II or 9-methylpurin-8-ones III depending on the nature of substituents in the spoint of the pyrinidine ring.

RI: RCI (Recatcant); RACI (Reactant or reagent) (preparation of amino(nitrosopyrimidines and purinones by ring closure and rearrangement of (nitropyrimidinyl) aminoacetates under basic socialitions)

SSOCIATION (SCHEDING CONTROLLES CON

THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2008 ACS on SIN (Continued)

841295-85-0 HCAPLUS 2-Pyrimidinamine, 4-(hexahydro-4-methoxy-4-phenyl-1H-azepin-1-yl)-6-methyl-(CA INDEX MAME)

L18 ANSMER 4 OF 9 HCAPLUS COPYRIGHT 2008 ACS ON SIN
AN 2004:780666 HCAPLUS
DN 141:296046 T
Preparation of nitrogen-containing heterocyclic derivatives as chemokine receptor CCR5 antagonists and drugs containing the same as the active ingredient
Nishirawa, ener; Takaoka, Yoshikaru; Shibayama, Shiro
DA DO TARAPP, J86 pp.
CODEN: PIXXD2
DP 24tent
LA Japanese
FANLONI 1
FANLONI 1
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FANLONI NI KIND DATE APPLICATION NO. DATE

The title compds. [I; R1 = H, (un)protected acid group; X, Y = a bond, a spacer having 1-3 carbon atoms in the main chain, the ring A or B = (un)substituted 3 = to 13-semibered allocyclic or heterocyclic ring; the composition of the composit

L18 ANSWER 4 OF 9 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)
treating or preventing HIV infection, immune diseases, and inflammatory
diseases)
RN 763932-71-4 BCAPLUS
CN 2-Pytrindinamine, 4-(hexahydro-lH-arepin-l-yl)-N-4-piperidinyl-,
trihydrochloride (9CI) (CA INDEX NAME)

RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 4 OF 9 HCAPLUS COPYRIGHT 2008 ACS on SIN (Continued)
aspergillosis, or allergic eosinophilic gastroenteritis), ischemic
reperfusion injury, acute respiratory distress syndrome, and shock,
soln. of 500 mg 1-(4-4-(sechtylau/fonylamino)phenoxylbenryl]piperidine-4carboxaldehyde, 396 mg N-(tert-butoxycarbonyl)-1--cyclohexylalamine, 0.140
ml. n-butylamine, and 0.179 ml. 2-morpholinosthyl iscoyanide in 13 ml. Medow
was stirred at 65° for 12 h, treated with 0.5 ml concd. HCl,
stirred for 2 h, concd, treated with 15 ml MCRC12 and 15 ml and . aq.
stirred for 2 h, concd, treated with 15 ml MCRC12 and 15 ml and . aq.
was heated with 1.25 M AcOM/ECOAC (20 ml) at 70° for 12 h to give,
after workup and silica gel chromatog, and salf formation with HCl,
N-[4-[4-[(5-[(55)-1-butyl-5-(cyclohexylmethyl)-3,6-dioxoplyperain-2yl]piperidin-1-yl interhyl]phenorylphenylmethyll-3,6-dioxoplyperain-2NANIES-induced temporary increase in cellular Ca24 ion concm. in CHO
stably expressing excess human CCR5 with ICSO of 0.07 pM.
Pharmaceutical formulations, e.g. an ampule contg. II, were described.
The stably expressing excess human CCR5 with ICSO of 0.07 pM.
Pharmaceutical formulations, e.g. an ampule contg. II, were described.
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Treparation of nitrogen-containing heterocyclic derivs. as CCR5 entago)
(preparation of nitrogen-containing heterocyclic derivs. as CCR5 entago)

(Uses)
(preparation of nitrogen-containing heterocyclic derivs. as CCRS antagonists for treating or preventing HIV infection, inmune diseases, and inflammatory diseases)
763932-38-3 HCAPLUS
Methanesulfonamide, N-[4-[4-[4-[4-[4-(hexahydro-1H-azepin-1-y1)-2-pyrinidinyl]aminol-1-piperidinyl]methyl]phenoxy[phenyl]-, trihydrochloride
(SCI) (CA INOXE NAME)

●3 HC1

●3 HCl

763932-71-19
RNL RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of nitrogen-containing beterocyclic derivs. as CCR5 antagonists for

ANSWER S OF 9 HCAPLUS COPYRIGHT 2008 ACS ON SIN
AN 2004:531389 HCAPLUS
DN 141:99720
If preventives and/or remedies for central diseases
IN Micoquent, Ayuni; Sasaki, Katsutoshi; Hagihara, Koji; Aoyama, Shirou;
Nenaka, Hicomi; Aral, Hitoshi; Shirokaki, Shiruo; Kuwama, Yoshihisa;
PA Kyowa Hakko Kogyo Co., Ltd., Japan
OCEN: PIXXD2
DT Patent
LA Japanese
FABL.CNI 1
PATENT NO. KIND DATE APPLICATION NO. DATE

It is intended to provide a preventive and/or a remedy for central diseases containing, as the active ingredient, a substance having an effect of inhibiting the function of G-protein coupled receptor 88 (GPR88), and a pyrimidine derivative represented by the following general formula (I): I pyrimidine derivative representes the following general formula (I): I hydrogen, etc.; its Psychological sets; and Y represents hydrogen, etc.; its Psychological acceptable salt, etc. 714266-29-29

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); USES (Uses)

Clusses (Uses)

Clusses (Clusses)

Antibodies, and antisense oligonuclecties as preventives and/or remedies for central nervous system diseases)

714266-29-2 RCAPLUS

5-pyrimidinecarboxylic acid, 2-(hexahydro-1H-azepin-1-y1)-4-[(1-methy1-2-phenoxyethy1)amino]- (CA INDEX NAME) IT

RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

AN DN TI

ANGMER 6 OF 9 HCAPLUS COPYRIGHT 2008 ACS on STN 2002:458417 HCAPLUS 138:100338
Synthesis, cytotoxicity and antiviral activity of N,N'-bis-5nitropyrining'd derivatives of dispirotriplperazine
Schmidtke, M.; Riabova, O.; Dahse, H.-M.; Steizner, A.; Makarov, V.
Institute of Virology, Friedrich Schmiller University of Jena, Jena,
D-07185, Germany
CODEN: ARSROR; ISSN 0166-3542
Elsevier Science B.V.
Journal

so

Antiviral Research (1997).

Antiviral Research (1997).

Elsevier Science B.V.

Elsevier Science B.V.

Elsevier Science B.V.

English

During the search for new antivirals, various N.N'-bis-5-pyrinidyl derivs.

of 3,12-diaza-6,9-diazonia(5,2,5,2)dispirohexadecane dichloride

(dispirotripiperazine) were synthesized. To reveal relationships between

chemical structure and antiviral activity, the compds. were characterized by

fast atom bombardment mass, NRM, infra red spectroscopy, and elemental

anal. and examined for cytoconicity, inhibition of cell growth and antiviral

anal. end examined for cytoconicity, inhibition of cell growth and antiviral

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anal. end examined for cytoconicity, inhibition of cell growth and antiviral

anal. end examined for an a potent structure-dependent inhibition of herpes

simplex virus type 1 replication when added during viral adsorption.

Functional group anal. revealed that both the dispirotripiperazine as well

as the pyrinidine ring with a nitro group in the 5 position are necessary

for activity. A reduction of electron d. in the terminal pyrinidine rings

for activity. A reduction of electron d. in the terminal pyrinidine rings

for activity. A reduction of a Me. group in position 2 of the pyrinidine

had no influence on cytocoxicity or antiviral activity.

488739-42-2 488719-43-3

RI: PAC (Pharmacological activity); TMU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(cytocoxicity and antiviral activity of bis(nitropyrinidy) derivs. of

disjirotripiperazine)

3,6,9,12-fartamacdispirol5.2.5.2|hexadecan-6,9-ium, 3,12-bis(-(hexahydro
18-arepin-1-yl)-5-nitro-4-pyrimidinyl-, chloride (1:2) (CA INDEX NAME)

II

$$\bigcup_{NO_2} N+N+N+N-N-N$$

488719-43-3 HCAPLUS 3,6,9,12-Tetraaradispiro[5.2.5.2]hexadecan-9,6-ium, 3,12-bis[6-(hexahydro-IH-azepin-1-yl)-2-methyl-5-nitro-4-pyrimidinyl)-, chloride (1:2) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{Me} & \text{Me} \\ & \text{N} & \text{N} & \text{N} \end{array}$$

●2 C1-

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AN 1966:93456 HCAPLUS

No 64:93456
OREF 64:17589c-g

I Resolution of several racemic barbitals into optical antipodes. III.

Barbituric acid derivatives

AL STREAM (1966), 299(3), 231-42

JOURNAL

STREAM (1966), 299(3), 231-42

JOURNAL

ACCORDANCE 64:273456

CASEMACT 64:27346

CASEMACT 64:

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AN 1959:2100 HCAPLUS
OF ST. 100 HCAPL

- L10 ANSMER 8 OF 9 HCAPLUS COPYRIGHT 2008 AGS on SIN (Continued) C1 (XXV), 154°, 90. The apparent equil. consts. for the reaction RHQX + OH dalarw. MRQ60 + X at half-conversion were detd. in 668 HCONMe2 (the values in parentheses were detd. in H20) for the following compds. (equil. const. given): [X, 2.1 + 103 (640); X.7 + 105 (2.6-2.7 + 103); XI, 1.5 + 104 (1.4 + 104); XII, 0.9 + 104; XIX, 1.2 + 104 (1.0 + 104); XXII, 1.03; XXIX, 8.1 + 103; XXIX, 1.2 + 104 (1.0 + 104); XXII, 1.2 + 103; XXIX, 8.1 + 103; XXII, 8.1 + 103; XXIII, 8.1 + 104; XIII, 8.1 + 104; XIIII, 8.1 + 104; XIIII, 8.1 + 104; XIIII, 8.1 + 104; XIIII, 8.1 + 104; XIIII,



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     FILE 'REGISTRY' ENTERED AT 13:09:19 ON 20 FEB 2008
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          1368 L6 AND L3
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L12 933 L6 NOT L7

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